

SERVICE MANUAL

COMPACT DISC STEREO SYSTEM

BASIC TAPE MECHANISM : 6ZM-3 PR2NM
BASIC CD MECHANISM : AZG-1 VZD3RDM

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-WV39	CX-NWV39	SX-NDP24 SX-R277 SX-C607	RC-ZAS07

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/M Code No. 09-004-432-2T1).
- If requiring information about the CD mechanism, see Service Manual of AZG-1, (S/M Code No. 09-001-335-3NG).

aiwa

S/M Code No. 09-007-432-2R1

REVISION

DATA

SPECIFICATIONS

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminal	75 ohms (unbalanced)

<MW Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

<SW Tuner section>

Tuning range	5.730 MHz to 17.900 MHz
Usable sensitivity	40 µV (IEC)
Antenna	Wire antenna

<Amplifier section>

Power output	Front Rated: 50 W + 50 W (6 ohms, THD 1%, 1 kHz) Reference: 60 W + 60 W (6 ohms, THD 10%, 1 kHz) Rear (Surround) Rated: 20 W + 20 W (8 ohms, THD 1%, 1 kHz) Reference: 25 W + 25 W (8 ohms, THD 10%, 1 kHz) Center Rated: 20 W (8 ohms, THD 1%, 1 kHz) Reference: 25 W (8 ohms, THD 10%, 1 kHz) 0.1% (30 W, 1 kHz, 6 ohms, DIN AUDIO/Front) Inputs VIDEO/AUX: 300 mV (adjustable) MIC: 1.0 mV (10 K ohms) Outputs VIDEO OUT: 1.0 Vp-p (75 ohms) SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 8 ohms to 16 ohms CENTER SPEAKER: accept speakers of 8 ohms or more SUBWOOFER: 1.6 V PHONES (stereo jack): accepts headphones of 32 ohms or more
Total harmonic distortion	

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 15 kHz
Recording system	AC bias
Heads	DECK 1: Playback head x 1 DECK 2: Recording/playback head x 1, erase head x 1

<Compact disc player section>


Laser	Semiconductor laser (λ =780 nm)
D/A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Video signal	NTSC/PAL color format (selectable)
Video data	MPEG 1
Audio data	MPEG 1, LAYER 2

<General>

Power requirements	120 V/220–230 V/240 V AC switchable, 50/60 Hz
Power consumption	135 W
Power consumption in standby mode	20 W with power-economizing mode off 0.9 W with power-economizing mode on
Dimensions (W x H x D)	260 x 328 x 335 mm
Weight	8.7 kg

<Speaker system SX-NDP24>

Speaker system	2 way, bass reflex (magnetic shield type)
Speaker units	Woofer: 140 mm cone type Tweeter: 60 mm cone type
Impedance	6 ohms
Sensitivity	87 dB/W/m
Dimensions (W x H x D)	230 x 324 x 254 mm
Weight	3.8 kg

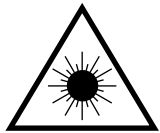
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PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käytt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstråling, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

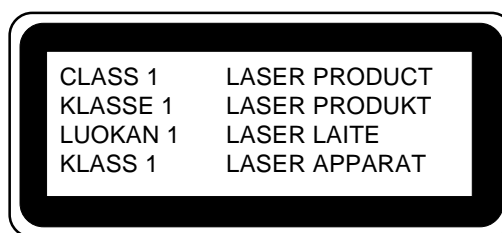
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

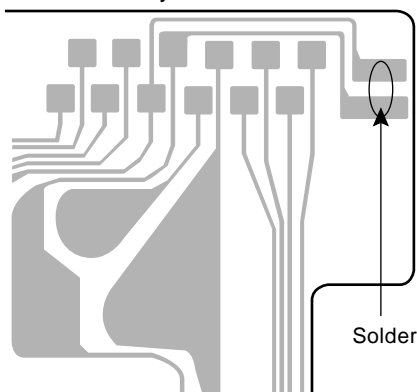


Precaution to replace Optical block (KSS – 213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.

PICKUP Assy P.C.B.



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, secondary defect can occur.

In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

- ① Remove the AC power cord.
- ② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
- ③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
- ④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
- ⑤ Check that voltage across C101 and C102 has decreased to 1 V or less using a multimeter or an oscilloscope.

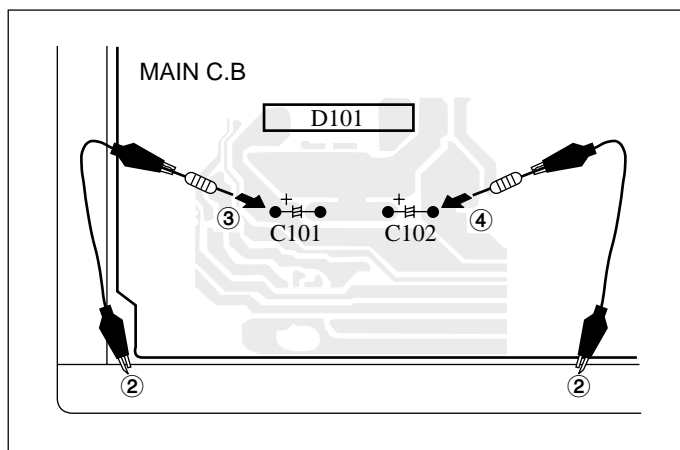


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is “H”, the MICROCOMPUTER is judged to be operating correctly. When this terminal is “L”, the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.

When the MICROCOMPUTER is not defective, the HOLD terminal can also go “L” when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to “L”.

• Good or no good judgement of the MICROCOMPUTER

- ① Turn on the AC main power.
- ② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the “H” level or not.
- ③ When the HOLD terminal is “L” level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

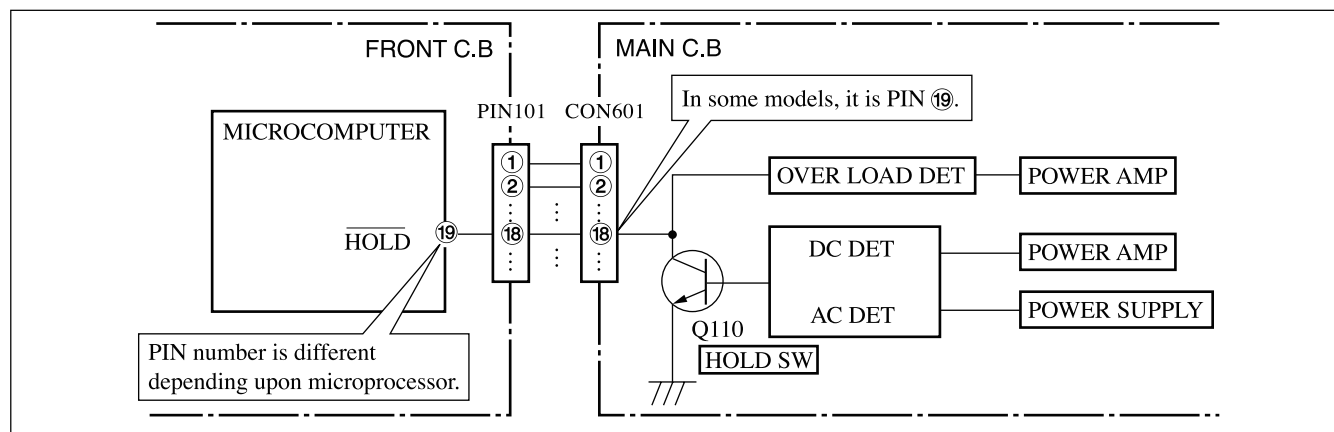


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.

When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

- ① Remove the AC power cord.

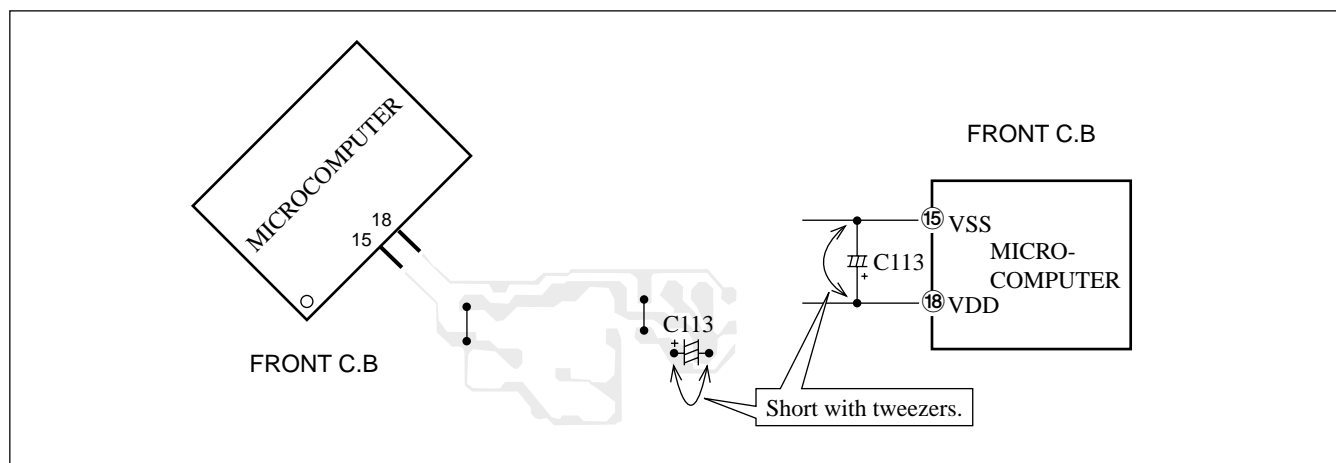


Fig-2-2

- ② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
- ③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C40	87-010-197-080		CAP, CHIP 0.01 DM
	87-A21-398-010		IC,STK490-110	C60	87-010-403-080		CAP, ELECT 3.3-50V
	87-A20-783-040		C-IC,BA7762AFS	C80	87-010-401-080		CAP, ELECT 1-50M SME
	87-A21-097-040		C-IC,M62463AFP	C81	87-010-265-080		CAP, ELECT 33-16M SME
	87-A21-452-030		C-IC,BD3876KS2	C82	87-010-260-080		CAP, ELECT 47-25M SME
	8A-NH9-601-010		C-IC,UPD780226GF-017-3BA	C115	87-010-404-080		CAP, ELECT 4.7-50V
	87-A21-482-010		IC,RPM6938-H4	C116	87-010-404-080		CAP, ELECT 4.7-50V
	87-070-127-110		IC,LC72131 D	C151	87-010-382-080		CAP, E 22-25
	87-A21-415-010		IC,LA1843	C163	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-020-454-010		IC,DN6851	C171	87-012-368-080		C-CAP,S 0.1-50 F
TRANSISTOR				C172	87-012-368-080		C-CAP,S 0.1-50 F
	87-026-245-080		TR,DTC114ES	C173	87-012-368-080		C-CAP,S 0.1-50 F
	87-026-609-080		TR,KTA1266GR	C174	87-012-368-080		C-CAP,S 0.1-50 F
	87-A30-198-080		TR,KTC3199GR	C301	87-010-318-080		C-CAP,S 47P-50 CH
	89-213-702-010		TR,2SB1370 (1.8W)	C302	87-010-318-080		C-CAP,S 47P-50 CH
	87-026-610-080		TR,KTC3198GR	C303	87-012-157-080		C-CAP,S 330P-50 CH
	87-A30-076-080		C-TR,2SC3052F	C304	87-012-157-080		C-CAP,S 330P-50 CH
	87-A30-075-080		C-TR,2SA1235F	C305	87-012-157-080		C-CAP,S 330P-50 CH
	87-A30-318-080		TR,CSA952K	C306	87-012-157-080		C-CAP,S 330P-50 CH
	87-A30-107-070		C-TR,CMBT5401	C307	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-074-080		C-TR,RT1P 141C	C309	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-468-080		C-TR,KRC102S-RTK	C310	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-106-080		C-TR,CMBT5551	C311	87-010-198-080		CAP, CHIP 0.022
	87-A30-087-080		C-FET,2SK2158	C312	87-010-198-080		CAP, CHIP 0.022
	87-A30-063-080		C-TR,KRA104S	C313	87-010-180-080		C-CER 1500P
	87-A30-086-040		C-TR,CSD1306E	C314	87-010-180-080		C-CER 1500P
	87-A30-329-080		TR,CD1585BC	C315	87-010-182-080		C-CAP,S 2200P-50 B
	89-327-143-080		TR,2SC2714 (0.1W)	C316	87-010-182-080		C-CAP,S 2200P-50 B
	87-A30-072-080		C-TR,RT1P 144C	C321	87-012-142-080		CAP, S 0.33-16
	87-A30-234-080		TR,CSC4115BC	C322	87-012-142-080		CAP, S 0.33-16
	89-503-602-080		C-FET,2SK360E	C324	87-010-260-080		CAP, ELECT 47-25V
DIODE				C325	87-010-370-080		CAP,E 330-6.3 SME
	87-A40-548-090		DIODE,D3SBA20	C327	87-010-404-080		CAP, ELECT 4.7-50V
	87-017-447-010		DIODE,GBU4DL	C328	87-010-404-080		CAP, ELECT 4.7-50V
	87-A40-553-080		DIODE,1N4003 LES	C332	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A40-776-080		ZENER,UZ27BSD	C335	87-010-401-080		CAP, ELECT 1-50V
	87-A40-764-080		ZENER,UZ10BSC	C336	87-010-401-080		CAP, ELECT 1-50V
	87-070-274-080		DIODE,1N4003 SEM	C337	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A40-313-080		C-DIODE,MC 2840	C339	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A40-270-080		C-DIODE,MC2838	C340	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A40-269-080		C-DIODE,MC2836	C351	87-012-140-080		CAP 470P
	87-A40-854-080		ZENER, UZ15BSA	C352	87-012-140-080		CAP 470P
	87-020-465-080		DIODE,1SS133	C354	87-010-175-080		CAP 560P
	87-A40-752-080		ZENER,UZ6.2BSC	C355	87-012-349-080		C-CAP,S 1000P-50 J CH GRM
	87-A40-760-080		ZENER,UZ9.1BSA	C356	87-010-260-080		CAP, ELECT 47-25V
	87-A40-747-080		ZENER,UZ5.1BSB	C357	87-010-197-080		CAP, CHIP 0.01 DM
	87-A40-745-080		ZENER,UZ4.7BSA	C358	87-010-183-080		C-CAP,S 2700P-50 B
	87-017-149-080		ZENER,HZS6A2L	C359	87-010-183-080		C-CAP,S 2700P-50 B
MAIN C.B				C360	87-010-183-080		C-CAP,S 2700P-50 B
C3	87-012-368-080		C-CAP,S 0.1-50 F	C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C4	87-012-368-080		C-CAP,S 0.1-50 F	C373	87-016-083-080		C-CAP,S 0.15-16 RK
C21	87-010-928-000		CAP,E 4700-25 M SMG	C374	87-016-083-080		C-CAP,S 0.15-16 RK
C22	87-010-928-000		CAP,E 4700-25 M SMG	C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C25	87-010-382-080		CAP, ELECT 22-25V	C379	87-010-382-080		CAP, ELECT 22-25V
C26	87-010-382-080		CAP, ELECT 22-25V	C380	87-010-382-080		CAP, ELECT 22-25V
C27	87-010-382-080		CAP, ELECT 22-25V	C381	87-010-197-080		CAP, CHIP 0.01 DM
C28	87-010-382-080		CAP, ELECT 22-25V	C382	87-010-312-080		C-CAP,S 15P-50 CH
C31	87-010-263-080		CAP, ELECT 100-10V	C383	87-010-197-080		CAP, CHIP 0.01 DM
C32	87-010-197-080		CAP, CHIP 0.01 DM	C384	87-010-402-080		CAP, ELECT 2.2-50V
C34	87-010-260-080		CAP, ELECT 47-25V	C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C35	87-010-406-080		CAP, ELECT 22-50V	C387	87-012-145-080		CAP, CHIP S 270P CH
C36	87-010-381-080		CAP, ELECT 330-16V	C388	87-012-156-080		C-CAP,S 220P-50 CH
C38	87-010-384-080		CAP, ELECT 100-25V	C391	87-010-319-080		C-CAP,S 56P-50 CH
C39	87-010-384-080		CAP, ELECT 100-25V	C392	87-010-319-080		C-CAP,S 56P-50 CH
				C393	87-010-319-080		C-CAP,S 56P-50 CH
				C394	87-010-319-080		C-CAP,S 56P-50 CH
				C401	87-010-176-080		C-CAP,S 680P-50 SL
				C402	87-010-176-080		C-CAP,S 680P-50 SL
				C403	87-010-958-080		CHIP -CAP,S 0.01-25BJ
				C404	87-010-958-080		CHIP -CAP,S 0.01-25BJ

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C405	87-010-958-080		CHIP -CAP,S 0.01-25BJ	C624	87-010-401-080		CAP, ELECT 1-50V
C406	87-010-958-080		CHIP -CAP,S 0.01-25BJ	C626	87-010-596-080		CAP, S 0.047-16
C407	87-010-401-080		CAP, ELECT 1-50V	C627	87-010-400-080		CAP, ELECT 0.47-50V
C408	87-010-401-080		CAP, ELECT 1-50V	C628	87-010-400-080		CAP, ELECT 0.47-50V
C409	87-010-196-080		CHIP CAPACITOR,0.1-25 ZF	C629	87-010-596-080		CAP, S 0.047-16
C410	87-010-112-080		CAP, ELECT 100-16V	C630	87-010-263-080		CAP, ELECT 100-10V
C411	87-010-400-080		CAP, ELECT 0.47-50V	C631	87-010-185-080		C-CAP,S 3900P-50 B
C412	87-010-400-080		CAP, ELECT 0.47-50V	C632	87-010-185-080		C-CAP,S 3900P-50 B
C413	87-010-400-080		CAP, ELECT 0.47-50V	C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C414	87-010-401-080		CAP, ELECT 1-50V	C635	87-A10-307-080		CAP,M 0.1-50 J
C417	87-010-221-080		CAP, ELECT 470-10V	C636	87-A10-307-080		CAP,M 0.1-50 J
C418	87-A10-891-080		CAP,E 4.7-25 SME(K)	C637	87-A10-307-080		CAP,M 0.1-50 J
C419	87-A10-800-080		C-CAP,S 6800P-16 J B CM	C638	87-A10-307-080		CAP,M 0.1-50 J
C420	87-010-374-080		CAP, ELECT 47-10V	C639	87-010-405-080		CAP, ELECT 10-50V
C421	87-010-196-080		CHIP CAPACITOR,0.1-25 ZF	C643	87-010-196-080		CHIP CAPACITOR,0.1-25
C422	87-A11-537-080		C-CAP,S 0.1-25 J B	C644	87-010-401-080		CAP, ELECT 1-50V
C424	87-010-374-080		CAP, ELECT 47-10V	C671	87-010-322-080		C-CAP,S 100P-50 CH
C425	87-010-196-080		CHIP CAPACITOR,0.1-25	C672	87-010-322-080		C-CAP,S 100P-50 CH
C428	87-012-156-080		C-CAP,S 220P-50J	C673	87-010-197-080		CAP, CHIP 0.01 DM
C429	87-010-544-080		CAP, ELECT 0.1-50M SME	C675	87-016-669-080		C-CAP,S 0.1-25 K B
C430	87-A10-201-080		CAP, S 0.33-16 K B	C679	87-010-196-080		CHIP CAPACITOR,0.1-25
C431	87-010-971-080		C-CAP,S 4700P-50 B J	C680	87-010-197-080		CAP, CHIP 0.01 DM
C432	87-012-349-080		C-CAP,S 1000P-50 J CH	C682	87-010-196-080		CHIP CAPACITOR,0.1-25
C433	87-A11-183-080		C-CAP,S 0.12-16 J B	C685	87-010-196-080		CHIP CAPACITOR,0.1-25
C434	87-A11-182-080		C-CAP,S 0.27-16 J B	C771	87-010-263-080		CAP, ELECT 100-10V
C435	87-A11-182-080		C-CAP,S 0.27-16 J B	C772	87-010-197-080		CAP, CHIP 0.01 DM
C436	87-A11-183-080		C-CAP,S 0.12-16 J B	C779	87-010-182-080		C-CAP,S 2200P-50 B
C437	87-010-971-080		C-CAP,S 4700P-50 B J	C780	87-010-182-080		C-CAP,S 2200P-50 B
C438	87-012-349-080		C-CAP,S 1000P-50 J CH	C782	87-010-197-080		CAP, CHIP 0.01 DM
C439	87-A11-733-080		C-CAP,S 1-16 Z F	C783	87-010-197-080		CAP, CHIP 0.01 DM
C440	87-010-401-080		CAP, ELECT 1-50V	C784	87-010-197-080		CAP, CHIP 0.01 DM
C441	87-A10-799-080		C-CAP,S 5600P-16 J B CM	C785	87-010-197-080		CAP, CHIP 0.01 DM
C442	87-A10-802-080		C-CAP,S 0.047-16 J B CM	C786	87-010-197-080		CAP, CHIP 0.01 DM
C443	87-A10-229-080		C-CAP,S 0.68-10 K W5	C788	87-010-149-080		C-CAP,S 5P-50 CH
C444	87-012-393-080		C-CAP,S 0.22-16 R K	C789	87-A10-592-080		C-CAP,S 0.015-50 J B
C445	87-012-393-080		C-CAP,S 0.22-16 R K	C790	87-A10-592-080		C-CAP,S 0.015-50 J B
C446	87-010-404-080		CAP, ELECT 4.7-50V	C791	87-010-196-080		CHIP CAPACITOR,0.1-25
C447	87-010-404-080		CAP, ELECT 4.7-50V	C792	87-010-197-080		CAP, CHIP 0.01 DM
C448	87-012-393-080		C-CAP,S 0.22-16 R K	C793	87-010-404-080		CAP, ELECT 4.7-50V
C449	87-012-393-080		C-CAP,S 0.22-16 R K	C795	87-010-197-080		CAP, CHIP 0.01 DM
C450	87-016-669-080		C-CAP,S 0.1-25 K B	C796	87-010-197-080		CAP, CHIP 0.01 DM
C451	87-A10-802-080		C-CAP,S 0.047-16 J B CM	C797	87-010-405-080		CAP, ELECT 10-50V
C452	87-A10-802-080		C-CAP,S 0.047-16 J B CM	C798	87-010-197-080		CAP, CHIP 0.01 DM
C453	87-016-669-080		C-CAP,S 0.1-25 K B	C799	87-010-407-080		CAP, ELECT 33-50V
C454	87-016-669-080		C-CAP,S 0.1-25 K B	C800	87-010-194-080		CAP, CHIP 0.047
C455	87-A10-801-080		C-CAP,S 0.022-16 J B	C801	87-010-403-080		CAP, ELECT 3.3-50V
C456	87-A10-801-080		C-CAP,S 0.022-16 J B	C802	87-010-194-080		CAP, CHIP 0.047
C457	87-016-669-080		C-CAP,S 0.1-25 K B	C803	87-010-198-080		CAP, CHIP 0.022
C489	87-010-545-080		CAP, ELECT 0.22-50V	C804	87-010-263-080		CAP, ELECT 100-10V
C492	87-010-402-080		CAP, ELECT 2.2-50V	C807	87-010-400-080		CAP, ELECT 0.47-50V
C531	87-010-405-080		CAP, ELECT 10-50M SME	C808	87-010-401-080		CAP, ELECT 1-50V
C532	87-010-196-080		CHIP CAPACITOR,0.1-25	C809	87-010-401-080		CAP, ELECT 1-50V
C533	87-010-196-080		CHIP CAPACITOR,0.1-25	C810	87-010-196-080		CHIP CAPACITOR,0.1-25
C534	87-012-156-080		C-CAP,S 220P-50 CH	C811	87-010-403-080		CAP, ELECT 3.3-50V
C535	87-010-178-080		CHIP CAP,1000P	C812	87-010-403-080		CAP, ELECT 3.3-50V
C536	87-010-196-080		CHIP CAPACITOR,0.1-25	C814	87-010-197-080		CAP, CHIP 0.01 DM
C541	87-010-178-080		CHIP CAP,1000P	C815	87-010-400-080		CAP, ELECT 0.47-50V
C609	87-010-181-080		CAP,CHIP S 1800P	C816	87-010-400-080		CAP, ELECT 0.47-50V
C610	87-010-181-080		CAP,CHIP S 1800P	C821	87-010-405-080		CAP, ELECT 10-50V
C611	87-010-956-080		C-CAP,S 0.068-25K B	C823	87-012-349-080		C-CAP,S 1000P-50 J CH GRM
C612	87-016-369-080		C-CAP,S 0.033-25 B K	C824	87-010-404-080		CAP, ELECT 4.7-50 M
C613	87-010-197-080		CAP, CHIP 0.01 DM	C825	87-010-596-080		CAP, S 0.047-16
C614	87-016-669-080		C-CAP,S 0.1-25 K B	C842	87-010-197-080		CAP, CHIP 0.01 DM
C616	87-010-181-080		CAP,CHIP S 1800P	C843	87-010-197-080		CAP, CHIP 0.01 DM
C617	87-012-369-080		C-CAP,S 0.047-50F	C844	87-010-197-080		CAP, CHIP 0.01 DM
C618	87-010-401-080		CAP, ELECT 1-50V	C845	87-010-197-080		CAP, CHIP 0.01 DM
C619	87-010-263-080		CAP, ELECT 100-10V	C846	87-010-197-080		CAP, CHIP 0.01 DM
C620	87-016-669-080		C-CAP,S 0.1-25 K B	C847	87-010-197-080		CAP, CHIP 0.01 DM
C621	87-010-197-080		CAP, CHIP 0.01 DM	C848	87-010-197-080		CAP, CHIP 0.01 DM
C623	87-010-401-080		CAP, ELECT 1-50V	C849	87-010-197-080		CAP, CHIP 0.01 DM

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C850	87-010-260-080		CAP, ELECT 47-25V	L941	87-A50-020-010		COIL,ANT LW(COI) 252KHZ
C851	87-010-197-080		CAP, CHIP 0.01 DM	L942	87-A50-550-010		COIL,OSC SW-2N(COI)
C852	87-010-197-080		CAP, CHIP 0.01 DM	L943	87-A50-522-080		COIL,1MH K CEC
C853	87-010-197-080		CAP, CHIP 0.01 DM	L944	87-A50-159-010		COIL,10MH K C2B
C858	87-010-196-080		CHIP CAPACITOR,0.1-25	L952	87-A50-430-010		COIL,ANT MW(3BSW)
C859	87-010-196-080		CHIP CAPACITOR,0.1-25	L953	87-A50-431-010		COIL,OSC MW(3BSW)
C860	87-010-197-080		CAP, CHIP 0.01 DM	R161	87-A00-440-050		RES,220-1/2W J RP
C940	87-010-197-080		C-CAP,S 0.01-25 K B C2012	R162	87-A00-440-050		RES,220-1/2W J RP
C941	87-010-314-080		C-CAP,S 22P-50V	R163	87-A00-440-050		RES,220-1/2W J RP
C943	87-010-197-080		CAP,CHIP 0.01 DM	R164	87-A00-440-050		RES,220-1/2W J RP
C945	87-010-197-080		CAP,CHIP 0.01 DM	R790	87-010-197-080		CAP, CHIP 0.01 DM
C946	87-010-971-080		C-CAP,S 4700P-50 B J	R991	87-010-322-080		C-CAP,S 100P-50 CH
C947	87-010-197-080		CAP,CHIP 0.01 DM	R993	87-010-322-080		C-CAP,S 100P-50 CH
C948	87-010-148-080		C-CAP,S 4P-50 C CH GRM	R995	87-010-322-080		C-CAP,S 100P-50 CH
C952	87-010-197-080		CAP,CHIP 0.01 DM	SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA
C953	87-010-197-080		CAP,CHIP 0.01 DM	SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA
C954	87-010-400-080		CAP,ELECT 0.47-50V	TC941	87-011-254-080		TRIMER,20P LAR
C956	87-010-263-080		CAP,ELECT 100-10V	TC943	87-011-253-080		TRIMER,30P LAR
C959	87-010-196-080		CHIP CAPACITOR,0.1-25	WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
C962	87-010-401-080		CAP, ELECT 1-50V	X991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
C963	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z				
C964	87-010-854-080		C-CAP,S 560PCH	FRONT C.B			
C971	87-010-381-080		CAP, ELECT 330-16V				
C972	87-010-404-080		CAP, ELECT 4.7-50V	C101	87-010-196-080		CHIP CAPACITOR,0.1-25
C973	87-010-197-080		CAP, CHIP 0.01 DM	C102	87-010-196-080		CHIP CAPACITOR,0.1-25
				C103	87-010-498-040		CAP,E 10-16 GAS
C974	87-010-197-080		CAP, CHIP 0.01 DM	C104	87-010-196-080		CHIP CAPACITOR,0.1-25
C979	87-010-322-080		C-CAP,S 100P-50 CH	C107	87-010-493-040		CAP,E 0.47-50 GAS
C981	87-010-260-080		CAP, ELECT 47-25V				
C982	87-010-196-080		CHIP CAPACITOR,0.1-25	C108	87-012-393-080		C-CAP,S 0.22-16 R K
C983	87-010-197-080		CAP, CHIP 0.01 DM	C153	87-010-198-080		CAP, CHIP 0.022
				C154	87-010-246-040		CAP,E 47-35 SME
C984	87-010-197-080		CAP, CHIP 0.01 DM	C155	87-010-404-040		CAP,E 4.7-50 SME
C987	87-010-197-080		CAP, CHIP 0.01 DM	C156	87-010-404-040		CAP,E 4.7-50 SME
C989	87-010-197-080		CAP, CHIP 0.01 DM				
C991	87-010-312-080		C-CAP,S 15P-50 CH	C361	87-010-178-080		CHIP CAP 1000P
C992	87-010-312-080		C-CAP,S 15P-50 CH	C362	87-010-178-080		CHIP CAP 1000P
				C371	87-010-178-080		CHIP CAP 1000P
C993	87-010-178-080		CHIP CAP 1000P	C372	87-010-178-080		CHIP CAP 1000P
C995	87-010-178-080		CHIP CAP 1000P	C601	87-010-382-040		CAP,E 22-25 SME
C997	87-010-196-080		CHIP CAPACITOR,0.1-25				
C998	87-010-260-080		CAP, ELECT 47-25V	C801	87-010-195-080		C-CAP,S 0.068-25 F
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F	C802	87-010-195-080		C-CAP,S 0.068-25 F
				C803	87-010-402-040		CAP,E 2.2-50 SME
CF831	87-008-261-010		FILTER,SFE10.7MA5-A	C804	87-010-402-040		CAP,E 2.2-50 SME
CF832	87-008-261-010		FILTER,SFE10.7MA5-A	C805	87-010-196-080		CHIP CAPACITOR,0.1-25
CN1	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3				
CN91	87-A60-109-010		CONN,2P V S2M 2W	C806	87-010-196-080		CHIP CAPACITOR,0.1-25
CN101	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3	C901	87-010-322-080		C-CAP,S 100P-50 CH
				C902	87-010-322-080		C-CAP,S 100P-50 CH
CN301	87-099-827-010		CONN,3P S2M-3W	C903	87-010-322-080		C-CAP,S 100P-50 CH
CN351	87-099-832-010		CONN,8P S2M-8W	C904	87-010-322-080		C-CAP,S 100P-50 CH
CN601	87-099-719-010		CONN,30P TYK-B(X)				
CN602	87-A60-131-010		CONN,6P V FE	C905	87-010-322-080		C-CAP,S 100P-50 CH
CNA1	8A-NF8-653-010		CONN ASSY,9P TID-A(480)	C906	87-010-322-080		C-CAP,S 100P-50 CH
				C907	87-010-322-080		C-CAP,S 100P-50 CH
D101	87-A11-148-080		CAP, TC U 0.01-50	C908	87-010-322-080		C-CAP,S 100P-50 CH
D951	87-A40-618-080		VARI-CAP,SVC348(S/T)	C909	87-010-322-080		C-CAP,S 100P-50 CH
FB161	87-008-474-080		F-BEAD, BL02RN1-R62T2 EMI				
FB162	87-008-474-080		F-BEAD, BL02RN1-R62T2 EMI	C910	87-010-322-080		C-CAP,S 100P-50 CH
FFE831	A8-8ZA-190-030		8ZA-1 FEUNM	C911	87-010-178-080		CHIP CAP 1000P
				C912	87-010-196-080		CHIP CAPACITOR,0.1-25
J102	87-A60-238-010		TERMINAL,SP 4P (MSC)	C913	87-010-248-040		CAP,E 220-10 SME
J103	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM	C914	87-010-248-040		CAP,E 220-10 SME
J604	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN				
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02	C915	87-010-196-080		CHIP CAPACITOR,0.1-25
J940	81-754-629-010		CONNECTOR,2P	C916	87-010-196-080		CHIP CAPACITOR,0.1-25
				C917	87-010-196-080		CHIP CAPACITOR,0.1-25
JW416	87-008-372-010		FLTR,EMIBLO1 RN1	C919	87-010-197-080		CAP, CHIP 0.01 DM
L101	87-A50-610-010		COIL,1UH K(MDEC)	C920	87-012-369-080		C-CAP,S 0.047-50F
L102	87-A50-610-010		COIL,1UH K(MDEC)				
L301	87-A50-049-010		COIL,TRAP 85K(COI)	C921	87-010-186-080		CAP,CHIP 4700P
L302	87-A50-049-010		COIL,TRAP 85K(COI)	C951	87-010-312-080		C-CAP,S 15P-50 CH
				C952	87-012-155-080		C-CAP 180P-50CH
L351	87-007-342-010		COIL,OSC 85K BIAS	C953	87-012-140-080		CAP 470P
L801	87-A50-540-010		COIL,FM DET(TOK)	C961	87-010-378-040		CAP,E 10-16
L802	87-A90-052-010		FLTR,CFMT-450A(TOK)				
L811	87-005-847-080		COIL,2.2UH(CECS)	C962	87-012-157-080		C-CAP,S 330P-50 CH
L832	87-005-847-080		COIL,2.2UH(CECS)	C963	87-010-196-080		CHIP CAPACITOR,0.1-25

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
CN104	87-A60-057-010		CONN,11P V 9604S-11C
CN701	88-NF9-658-010		CONN,30P BLK TYK-B(P)
CN731	87-099-015-010		CONN,13P 6216V
EMI401	87-008-372-080		FILTER,EMI BL OIRNI
FC731	88-913-301-110		FF-CABLE,13P-1.25
FFC104	88-911-101-110		FF-CABLE,11P 1.25
FL901	8A-NF9-605-010		FL,HNA-10SS12
J401	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM
L951	87-A50-434-010		COIL,CLK 4.19M(TOKO)
LED201	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED202	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED203	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED204	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED205	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED206	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED207	87-A40-266-080		LED,SLH-56VCT31 RED
LED208	87-A40-266-080		LED,SLH-56VCT31 RED
LED209	87-A40-317-080		LED,SLR-342VCT31 RED
S301	87-A90-164-080		SW,TACT SKQAB(N)
S302	87-A90-164-080		SW,TACT SKQAB(N)
S303	87-A90-164-080		SW,TACT SKQAB(N)
S304	87-A90-164-080		SW,TACT SKQAB(N)
S305	87-A90-164-080		SW,TACT SKQAB(N)
S306	87-A90-164-080		SW,TACT SKQAB(N)
S307	87-A90-164-080		SW,TACT SKQAB(N)
S308	87-A90-164-080		SW,TACT SKQAB(N)
S309	87-A90-164-080		SW,TACT SKQAB(N)
S310	87-A90-164-080		SW,TACT SKQAB(N)
S321	87-A90-164-080		SW,TACT SKQAB(N)
S322	87-A90-164-080		SW,TACT SKQAB(N)
S323	87-A90-164-080		SW,TACT SKQAB(N)
S324	87-A90-164-080		SW,TACT SKQAB(N)
S325	87-A90-164-080		SW,TACT SKQAB(N)
S326	87-A90-164-080		SW,TACT SKQAB(N)
S327	87-A90-164-080		SW,TACT SKQAB(N)
S328	87-A90-164-080		SW,TACT SKQAB(N)
S329	87-A90-164-080		SW,TACT SKQAB(N)
S330	87-A90-164-080		SW,TACT SKQAB(N)
S331	87-A90-164-080		SW,TACT SKQAB(N)
S341	87-A90-164-080		SW,TACT SKQAB(N)
S342	87-A90-164-080		SW,TACT SKQAB(N)
S343	87-A90-164-080		SW,TACT SKQAB(N)
S344	87-A90-164-080		SW,TACT SKQAB(N)
S345	87-A90-164-080		SW,TACT SKQAB(N)
S346	87-A90-164-080		SW,TACT SKQAB(N)
S347	87-A90-164-080		SW,TACT SKQAB(N)
S348	87-A90-164-080		SW,TACT SKQAB(N)
S349	87-A90-164-080		SW,TACT SKQAB(N)
S350	87-A90-164-080		SW,TACT SKQAB(N)
S361	87-A91-633-010		SW,RTRY XRE012103PVB25FINA 1-2
S371	87-A91-632-010		SW,RTRY XRE012103PVB25FINB 1-2
AMP 1F C.B			
C101	87-010-185-080		C-CAP,S 3900P-50 B
C102	87-010-185-080		C-CAP,S 3900P-50 B
C103	87-010-545-080		CAP, ELECT 0.22-50V
C104	87-010-545-080		CAP, ELECT 0.22-50V
C105	87-010-188-080		CAP,CHIP 6800P
C106	87-010-188-080		CAP,CHIP 6800P
C107	87-010-404-080		CAP, ELECT 4.7-50V
C108	87-010-404-080		CAP, ELECT 4.7-50V
C111	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C112	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C113	87-010-405-080		CAP, ELECT 10-50V
C114	87-010-405-080		CAP, ELECT 10-50V
C115	87-010-405-080		CAP, ELECT 10-50V
C116	87-010-405-080		CAP, ELECT 10-50V
C117	87-010-196-080		CHIP CAPACITOR,0.1-25

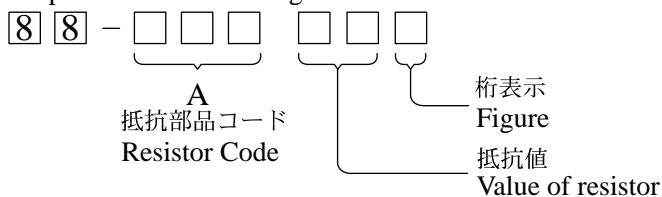
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C119	87-010-197-080		CAP, CHIP 0.01 DM
C120	87-010-197-080		CAP, CHIP 0.01 DM
C133	87-010-197-080		CAP, CHIP 0.01 DM
C153	87-010-188-080		CAP,CHIP 6800P
C205	87-010-183-080		C-CAP,S 2700P-50 B
C206	87-010-183-080		C-CAP,S 2700P-50 B
C207	87-010-545-080		CAP, ELECT 0.22-50V
C208	87-010-545-080		CAP, ELECT 0.22-50V
C209	87-010-178-080		CHIP CAP 1000P
C210	87-010-178-080		CHIP CAP 1000P
C211	87-010-403-080		CAP, ELECT 3.3-50V
C212	87-010-403-080		CAP, ELECT 3.3-50V
C215	87-010-179-080		C-CAP,S 1200P-50 KB
C216	87-010-179-080		C-CAP,S 1200P-50 KB
C217	87-010-405-080		CAP, ELECT 10-50V
C218	87-010-405-080		CAP, ELECT 10-50V
C219	87-010-190-080		S CHIP F 0.01
C221	87-010-405-080		CAP, ELECT 10-50V
C222	87-010-405-080		CAP, ELECT 10-50V
C223	87-010-197-080		CAP, CHIP 0.01 DM
C224	87-010-197-080		CAP, CHIP 0.01 DM
C251	87-010-993-080		C-CAP,S 0.056-25 B
C252	87-010-993-080		C-CAP,S 0.056-25 B
C253	87-010-196-080		CHIP CAPACITOR,0.1-25
C254	87-010-196-080		CHIP CAPACITOR,0.1-25
C401	87-010-260-080		CAP, ELECT 47-25V
CN101	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3
CN102	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3
CNA101	8A-NF8-656-010		CONN ASSY,5P TID-A 400
J201	87-A61-159-010		JACK,PIN 4P R/W/B/O KM
L251	87-A50-610-010		COIL,1UH K(MDEC)
L252	87-A50-610-010		COIL,1UH K(MDEC)
R129	87-A00-669-080		RES,M/F 0.22-2W J RA
R130	87-A00-669-080		RES,M/F 0.22-2W J RA
R181	87-A00-669-080		RES,M/F 0.22-2W J RA
R182	87-A00-669-080		RES,M/F 0.22-2W J RA
R231	87-A00-258-080		RES,M/F 0.22-1W J
R232	87-A00-257-080		RES,M/F 0.15-1W J
WH101	87-A90-459-010		HLDR,WIRE 2.5-5P
PT C.B			
C1	87-010-387-080		CAP,E 470-25 SME
C4	87-A11-148-080		CAP,TC U 0.1-50 Z F
C5	87-A11-148-080		CAP,TC U 0.1-50 Z F
C6	87-A10-627-090		CAP,E 2200-50 M SMG
C7	87-A10-627-090		CAP,E 2200-50 M SMG
C8	87-A11-148-080		CAP,TC U 0.1-50 Z F
C9	87-A11-148-080		CAP,TC U 0.1-50 Z F
C10	87-A11-148-080		CAP,TC U 0.1-50 Z F
C11	87-A11-148-080		CAP,TC U 0.1-50 Z F
C12	87-A10-627-000		CAP,E 2200-50 M SMG
C13	87-A10-627-000		CAP,E 2200-50 M SMG
C14	87-A11-148-080		CAP,TC U 0.1-50 Z F
C15	87-A11-148-080		CAP,TC U 0.1-50 Z F
C16	87-010-403-080		CAP, ELECT 3.3-50V
CN1	87-A61-110-010		CONN,9P V TID-A
CN2	87-A61-108-010		CONN,5P V TID-A
△ PT1	8A-NFW-615-010		PT,ANF-29 LH
△ PT2	8A-NF8-673-010		PT,SUB ANF-8(H)KAMI
△ RY1	87-A91-339-010		RELAY,AC DC12V G5PA-2
△ S1	87-A90-165-010		SW,SL 1-2-3 SWS2301
△ T1	87-A60-317-010		TERMINAL, 1P MSC
△ T2	87-A60-317-010		TERMINAL, 1P MSC
DECK C.B			
CON105	87-099-753-010		CONN,11P 9604
SFR1	87-024-581-010		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-410		SOL ASSY,27

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
SOL2	82-ZM1-618-410	SOL ASSY, 27		HEAD-1	C.B		
SW1	87-A90-248-010	SW, MICRO ESE11SH2CXQ		CON301	85-MA2-615-010	CONN, ASSY 3P-PB	
SW2	87-A90-248-010	SW, MICRO ESE11SH2CXQ					
SW3	87-A90-248-010	SW, MICRO ESE11SH2CXQ					
SW4	87-A90-248-010	SW, MICRO ESE11SH2CXQ					
SW5	87-A90-248-010	SW, MICRO ESE11SH2CXQ					
W1	82-ZM3-601-010	RBN-CORD, 4P-75					

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding



チップ抵抗
Chip resistor

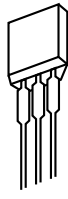
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



E C B

CD1585BC
CSA952K
KTA1266GR
KTC3198GR



E C B

DTC114ES
KTC3199GR



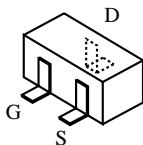
E C B

CSC4115BC

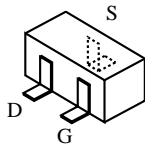


B C E

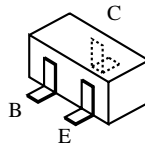
2SB1370



2SK2158



2SK360E

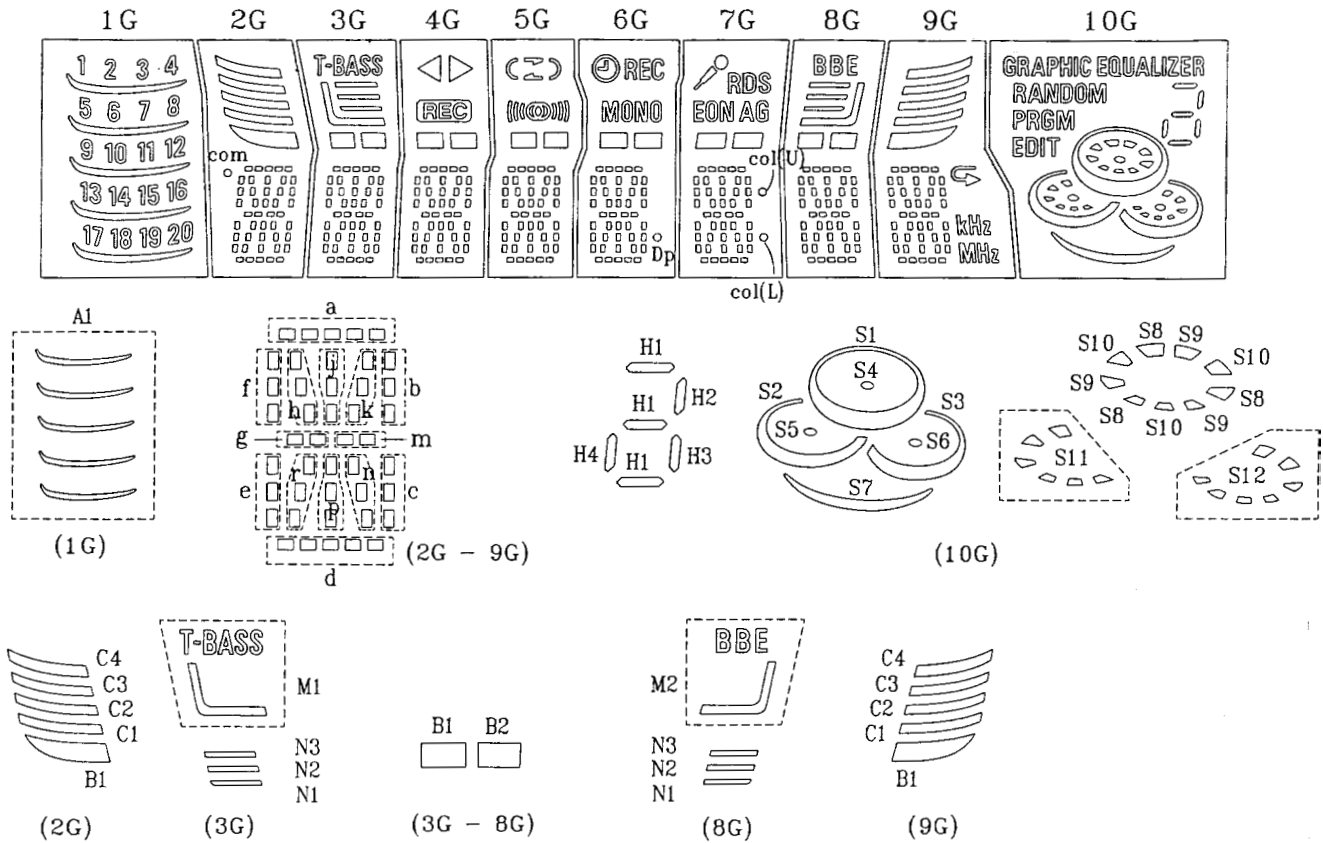


2SA1235F
2SC2714
2SC3052F
CMBT5401
CMBT5551

CSD1306E
KRA104S
KRC102S-RTK
RT1P141C
RT1P144C

FL (HNA-10SS12) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT

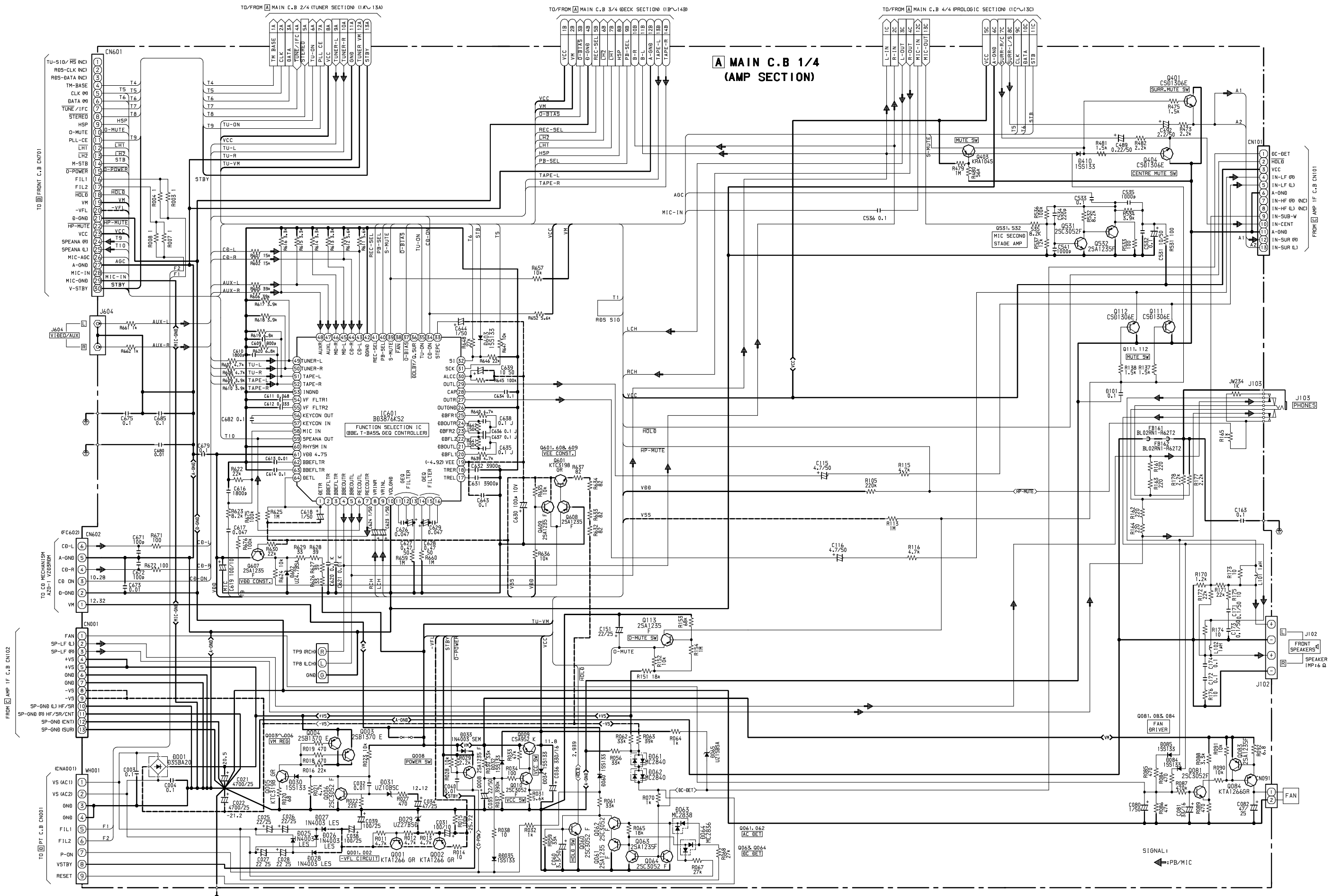


ANODE CONNECTION

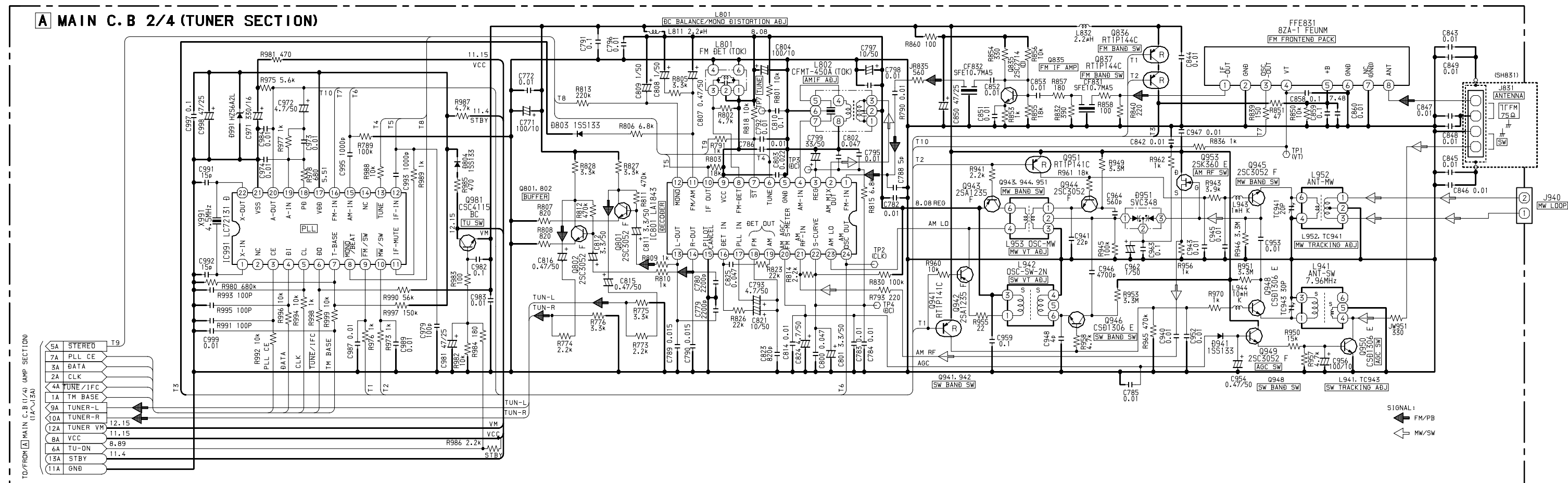
	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G
P1	20	d	d	d	d	d	d	d	d	S1
P2	19	n	n	n	n	n	n	n	n	S2
P3	18	p	p	p	p	p	p	p	p	S3
P4	17	r	r	r	r	r	r	r	r	S4
P5	16	e	e	e	e	e	e	e	e	S5
P6	15	c	c	c	c	c	c	c	c	S6
P7	14	g	g	g	g	g	g	g	g	S7
P8	13	m	m	m	m	m	m	m	m	S8
P9	12	f	f	f	f	f	f	f	f	S9
P10	11	b	b	b	b	b	b	b	b	S10
P11	10	k	k	k	k	k	k	k	k	S11
P12	9	j	j	j	j	j	j	j	j	S12
P13	8	h	h	h	h	h	h	h	h	EDIT
P14	7	a	a	a	a	a	a	a	a	PRGM
P15	6	B1	B1	B1	B1	B1	B1	B1	B1	RANDOM
P16	5	C1	B2	B2	B2	B2	B2	B2	C1	GRAPHIC EQUALIZER
P17	4	C2	M1	REC	MONO	Dp	col(U)	M2	C2	H1
P18	3	C3	N1	<	C	MONO	col(L)	N1	C3	H2
P19	2	C4	N2	>	Z	REC	EON	N2	C4	H3
P20	1	com	N3)	AG		N3		H4
P21	A1						RDS		kHz	
P22									MHz	

	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---	---	---	---	---	---	---	---	---	--

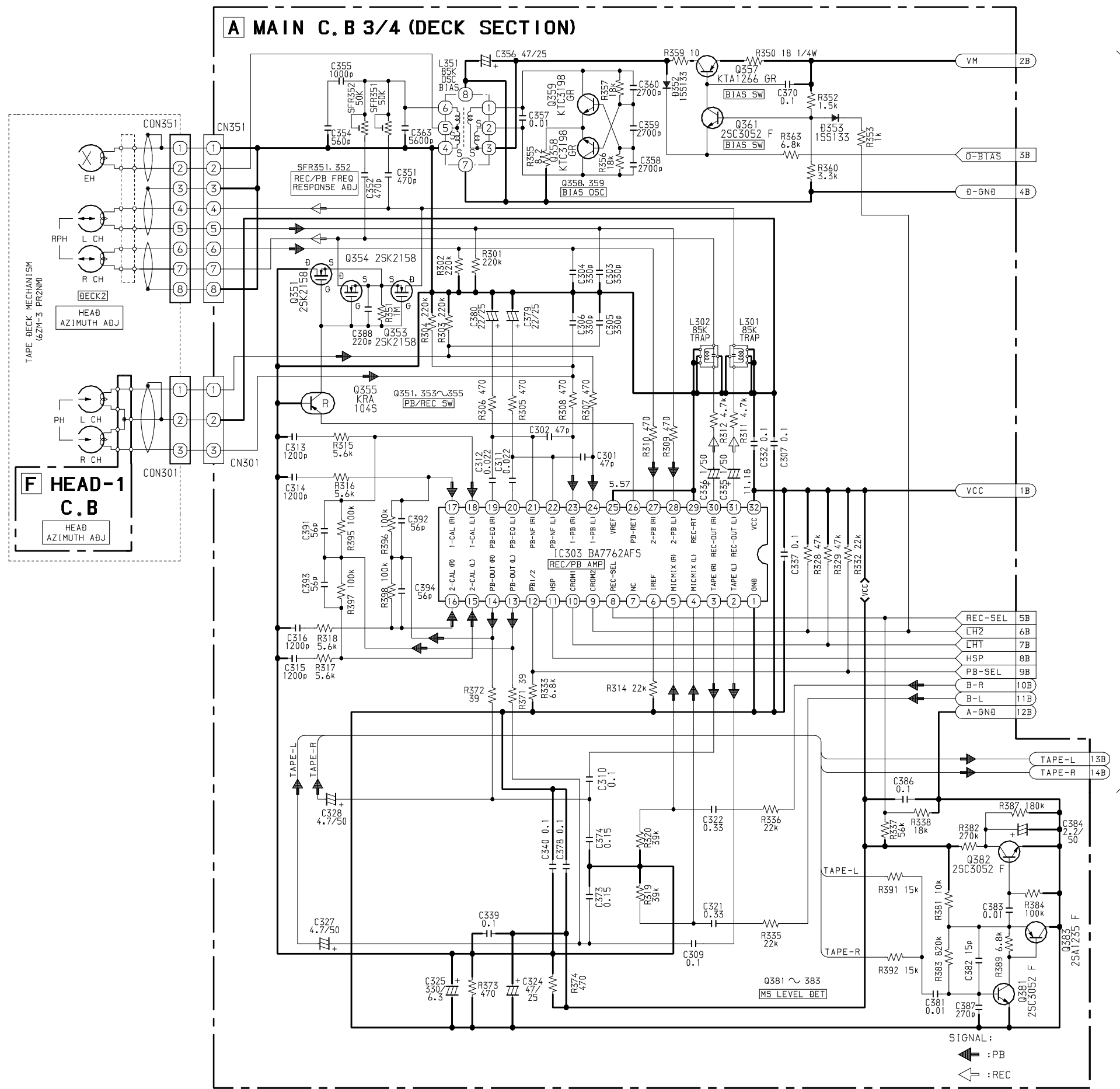
SCHEMATIC DIAGRAM-1 (MAIN 1 / 4 : AMP)



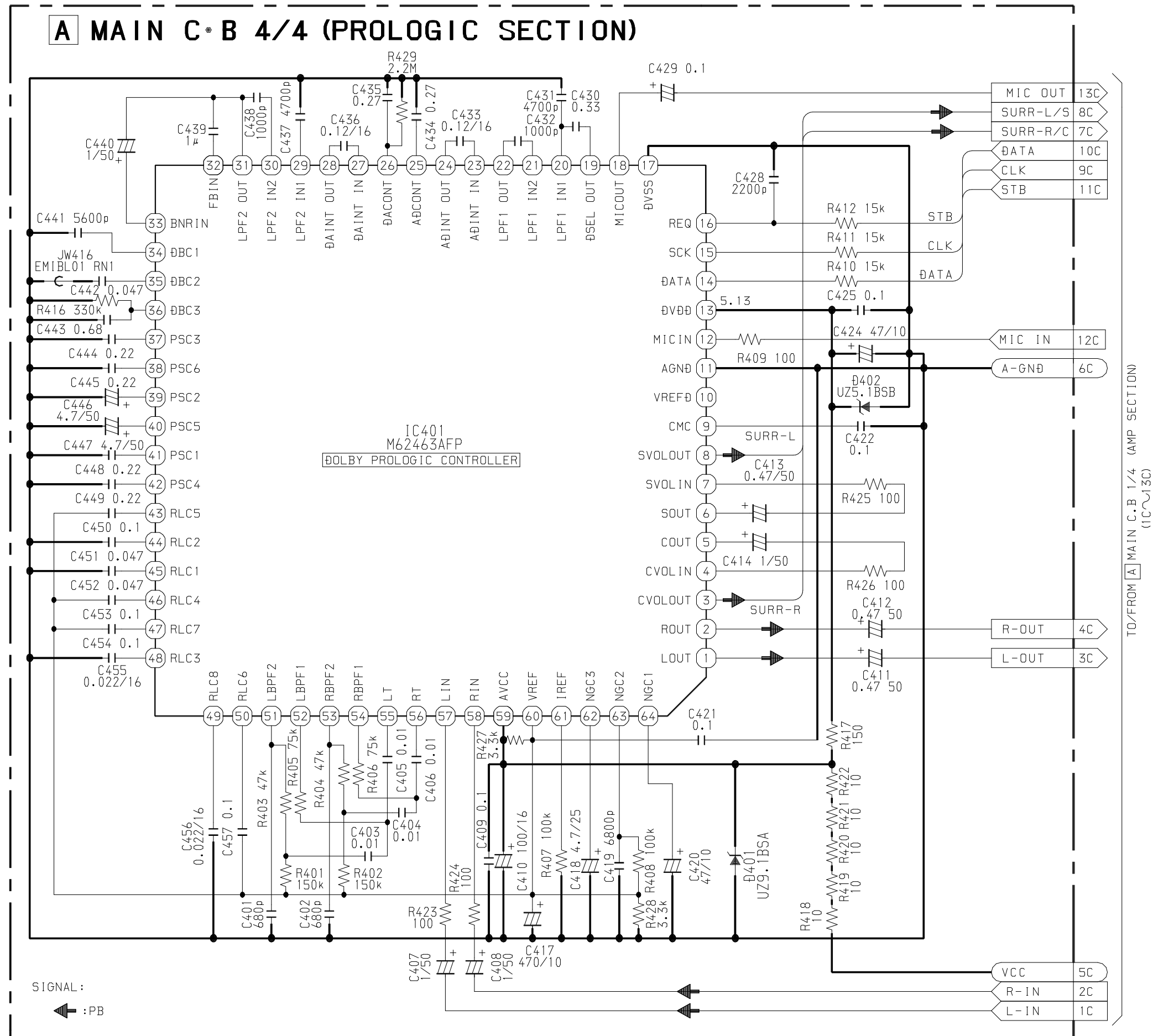
SCHEMATIC DIAGRAM-2 (MAIN 2/4:TUNER)



SCHEMATIC DIAGRAM – 3 (MAIN 3/4 : DECK / HEAD-1)

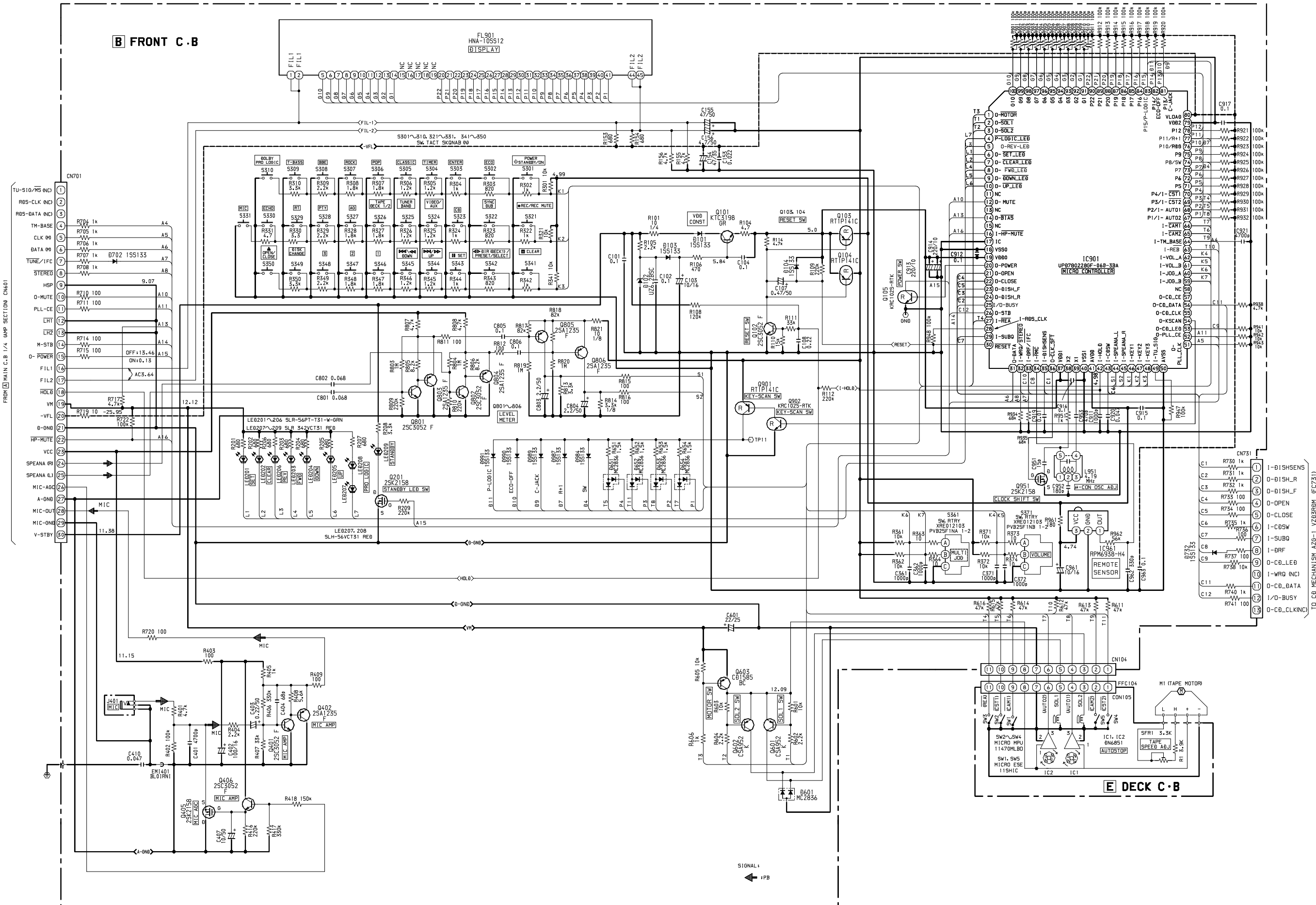


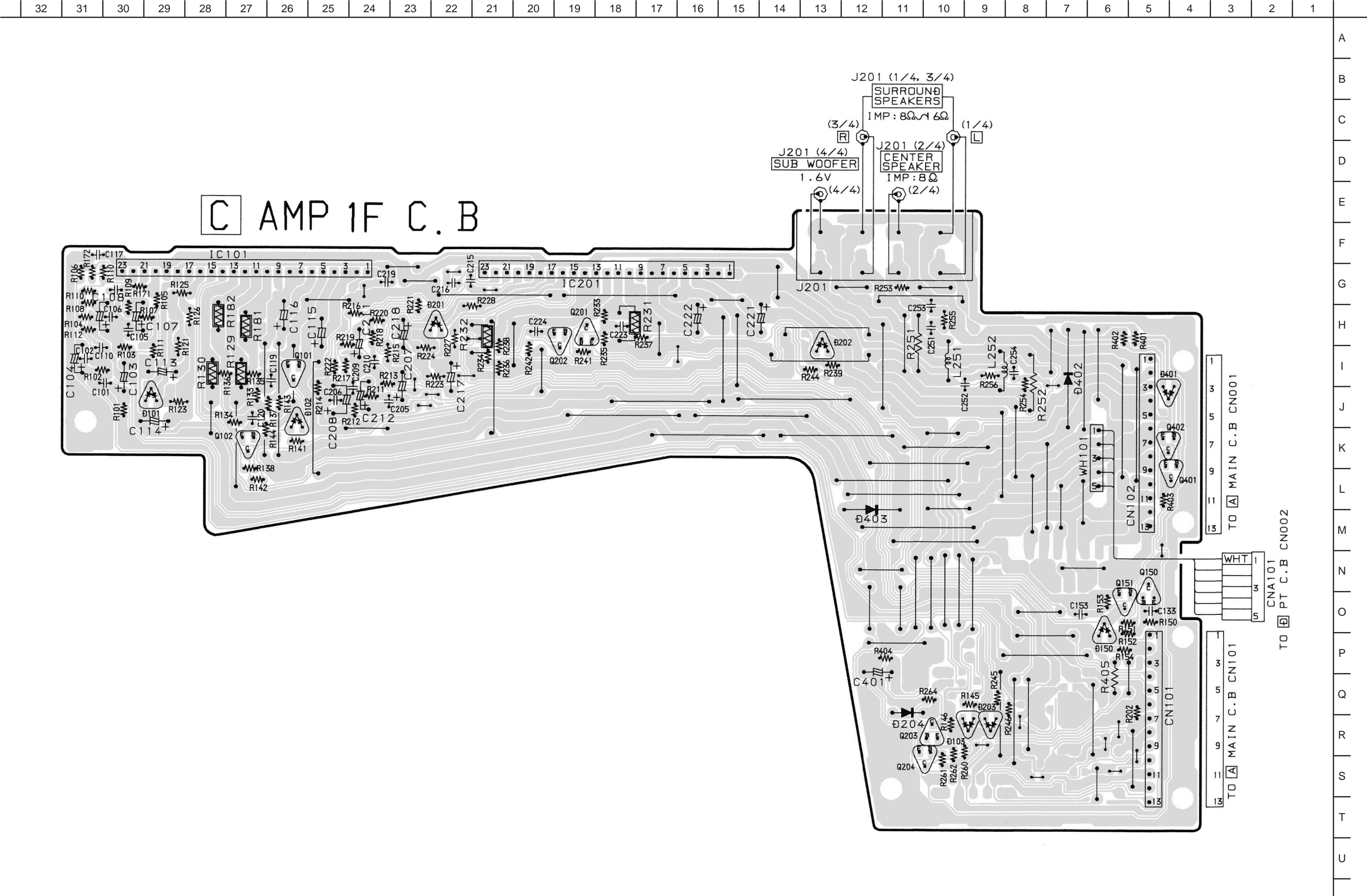
TO/FROM MAIN C.B 1/4 (AMP SECTION) (1B~4B)



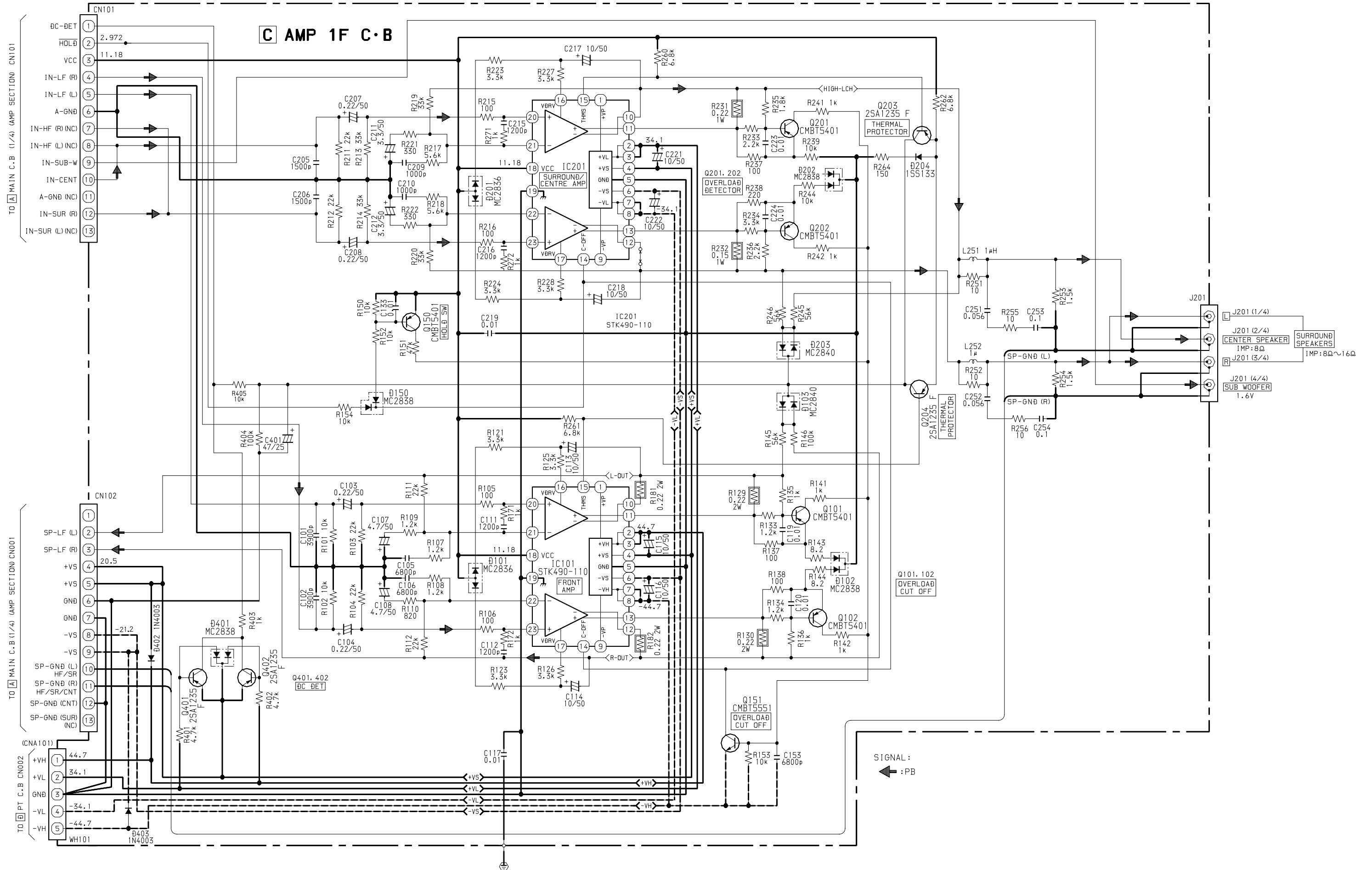


SCHEMATIC DIAGRAM – 5 (FRONT)

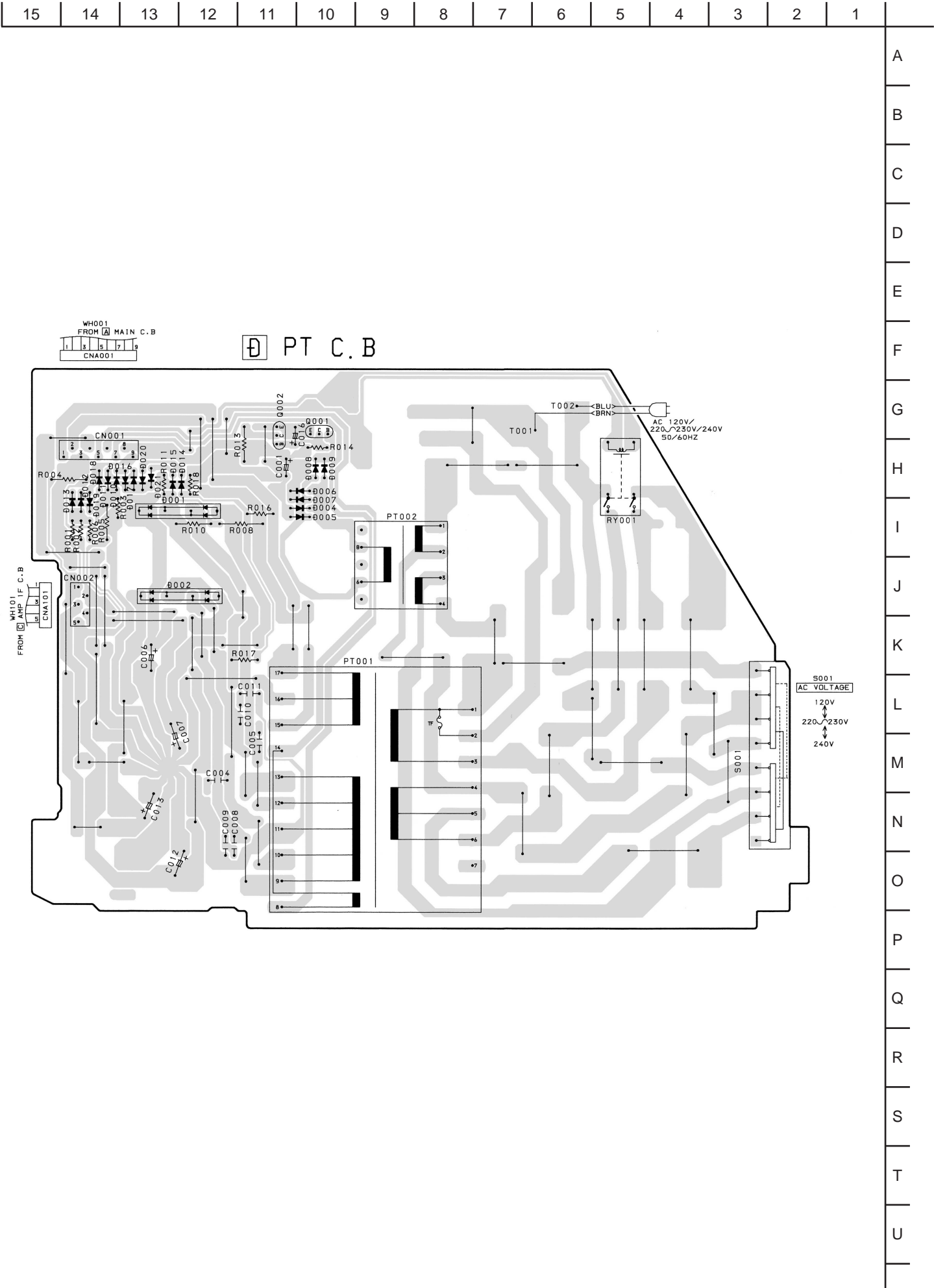




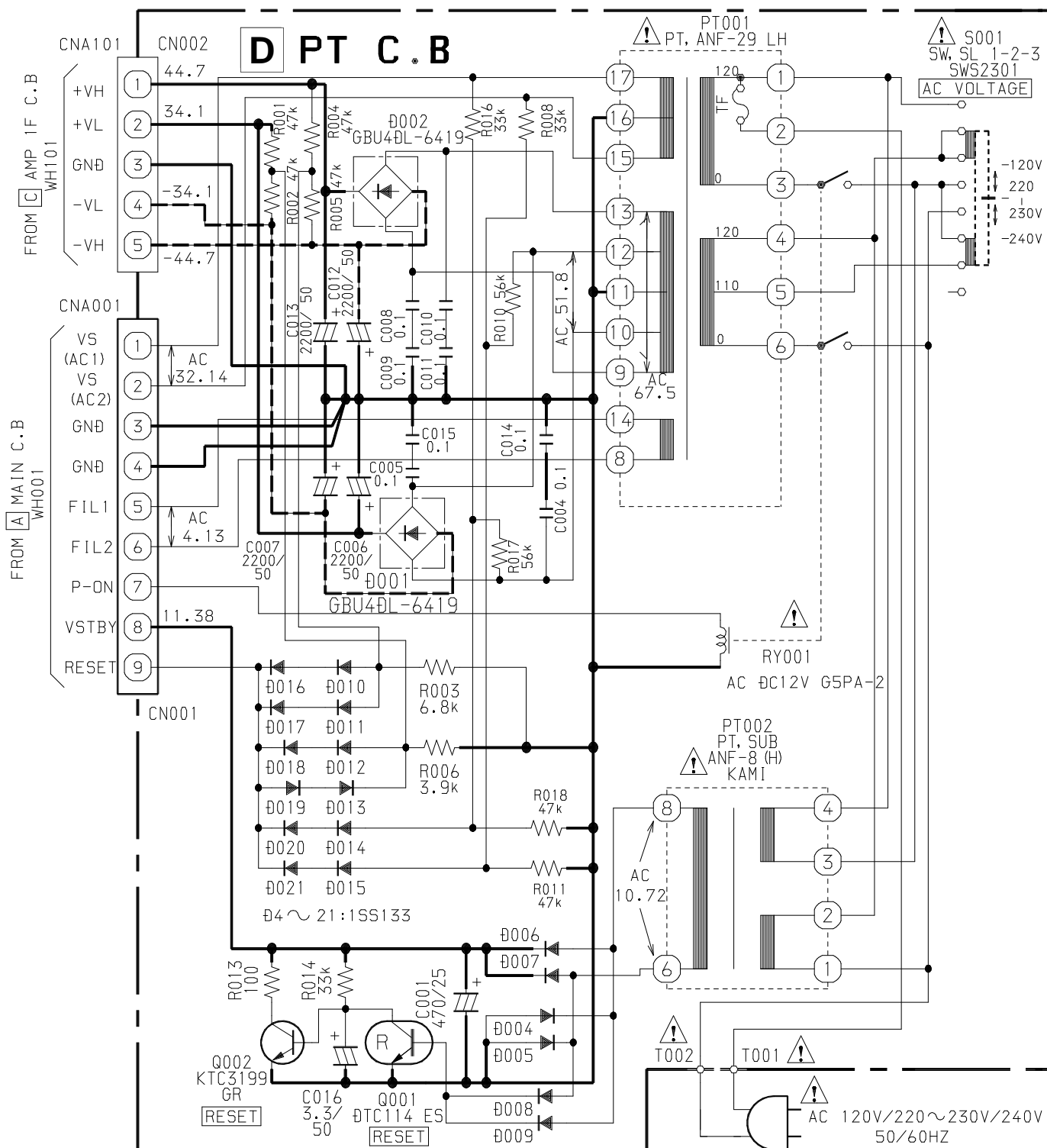
SCHEMATIC DIAGRAM – 6 (AMP 1F)



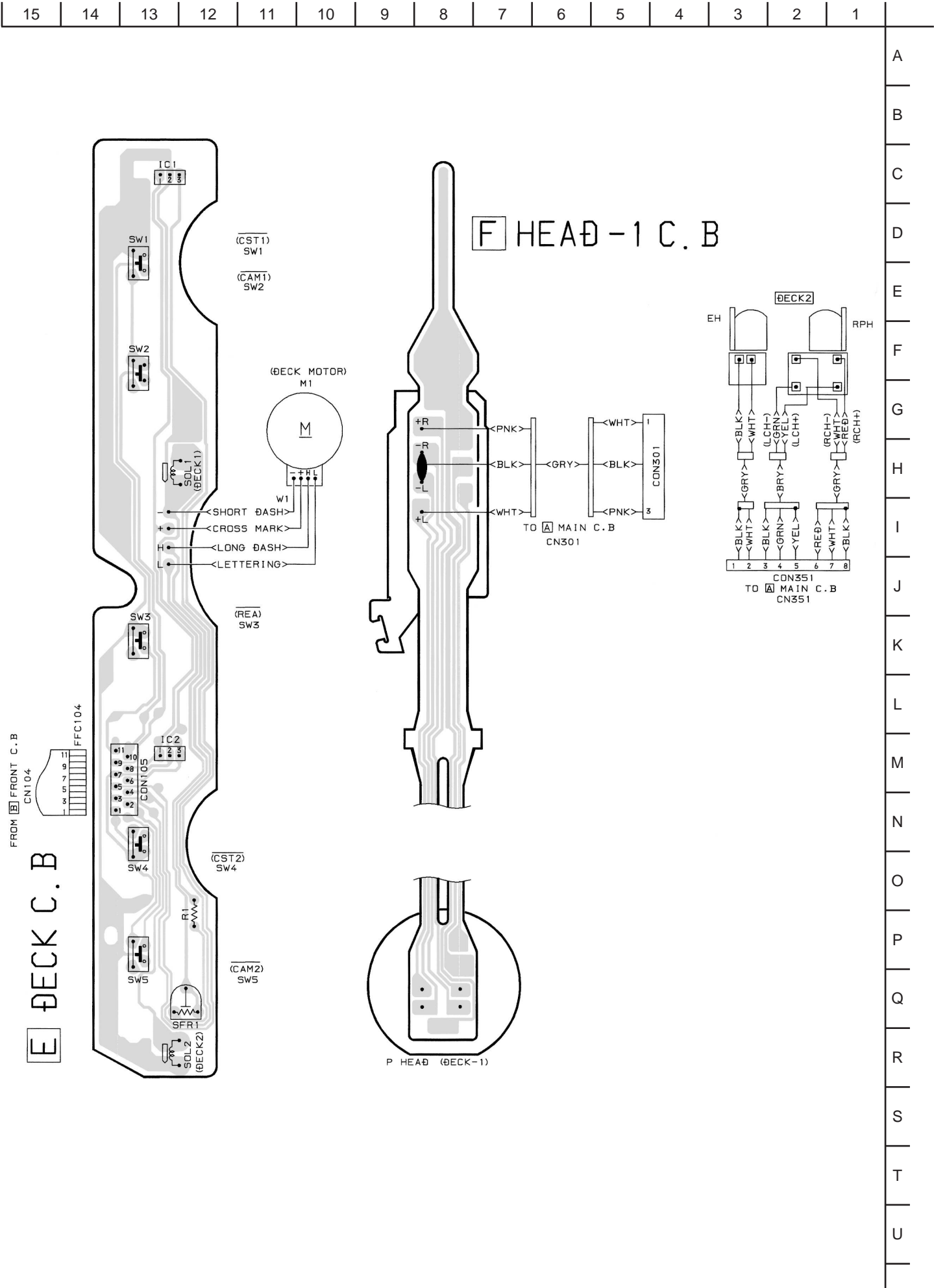
WIRING – 4 (PT)



SCHEMATIC DIAGRAM – 7 (PT)

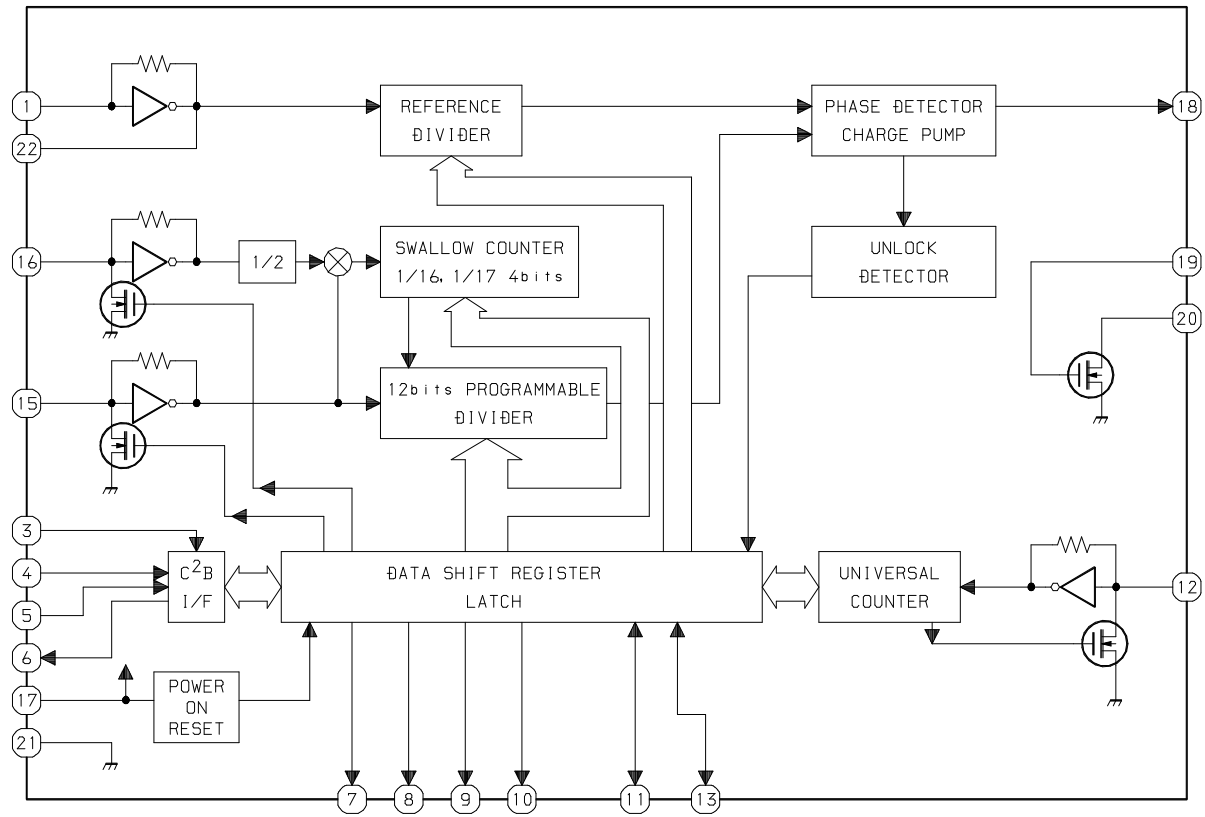


WIRING – 5 (DECK / HEAD – 1)

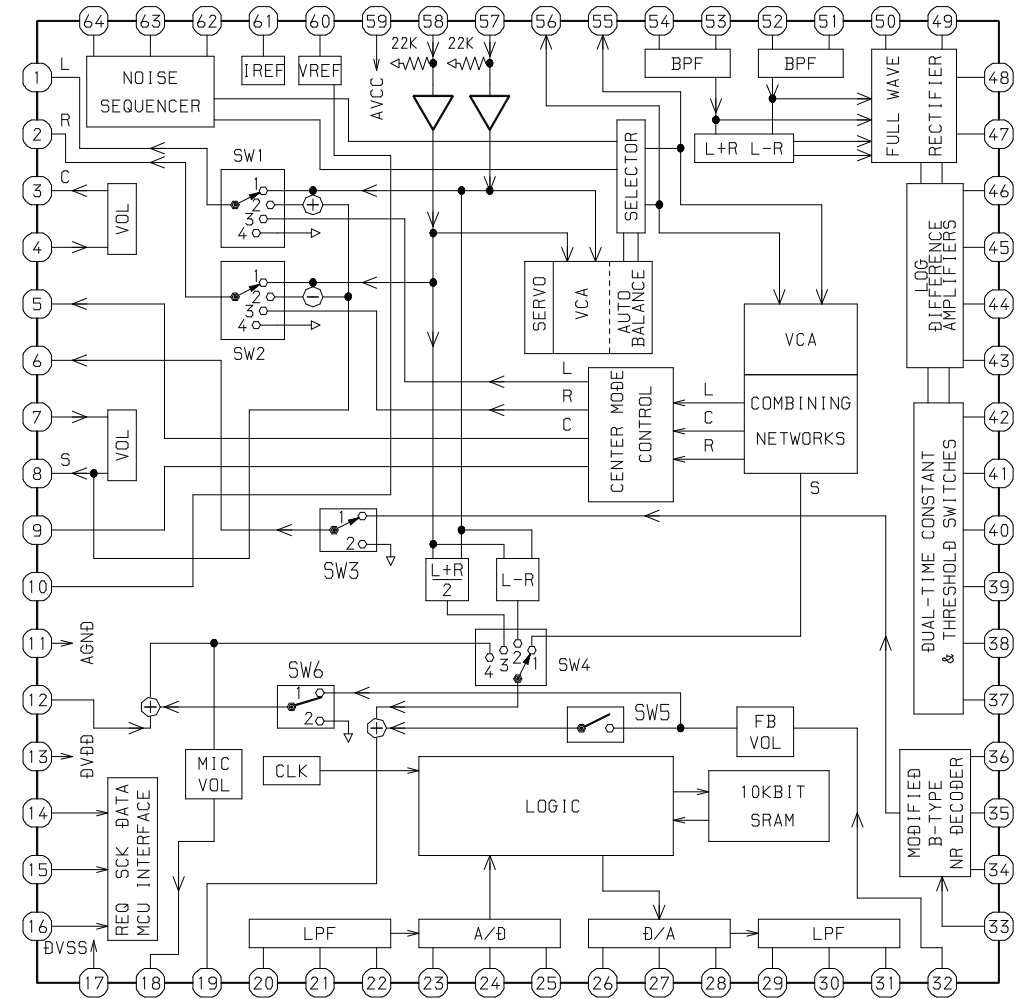


IC BLOCK DIAGRAM

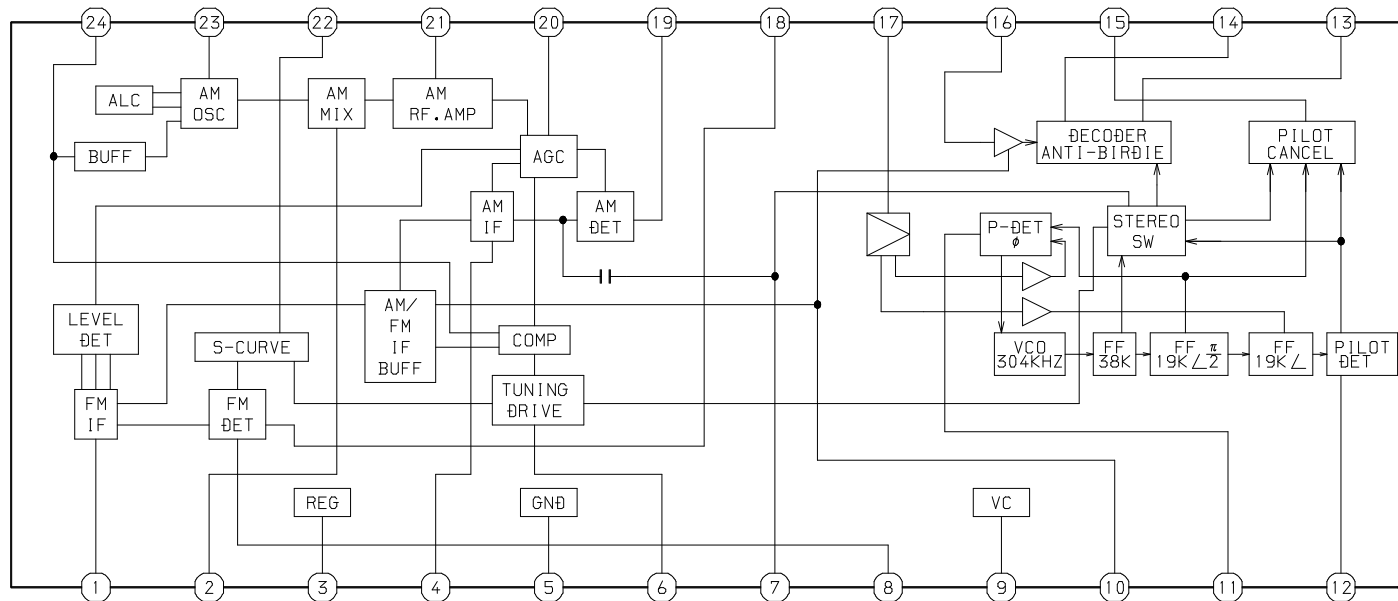
IC, LC72131D



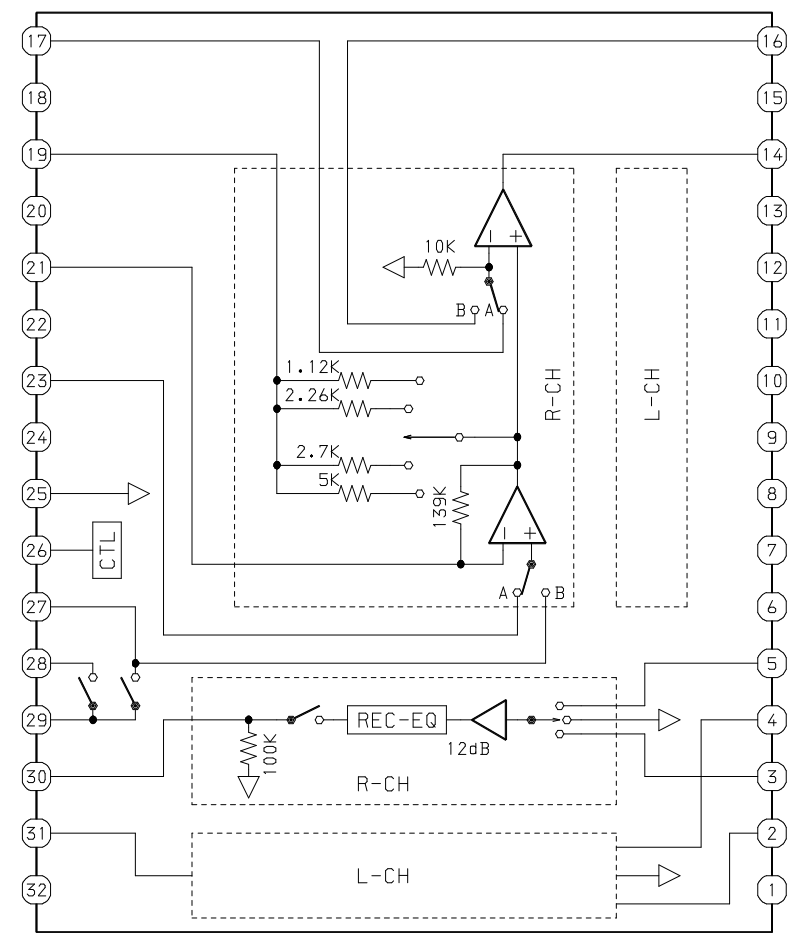
IC, M62463AFP



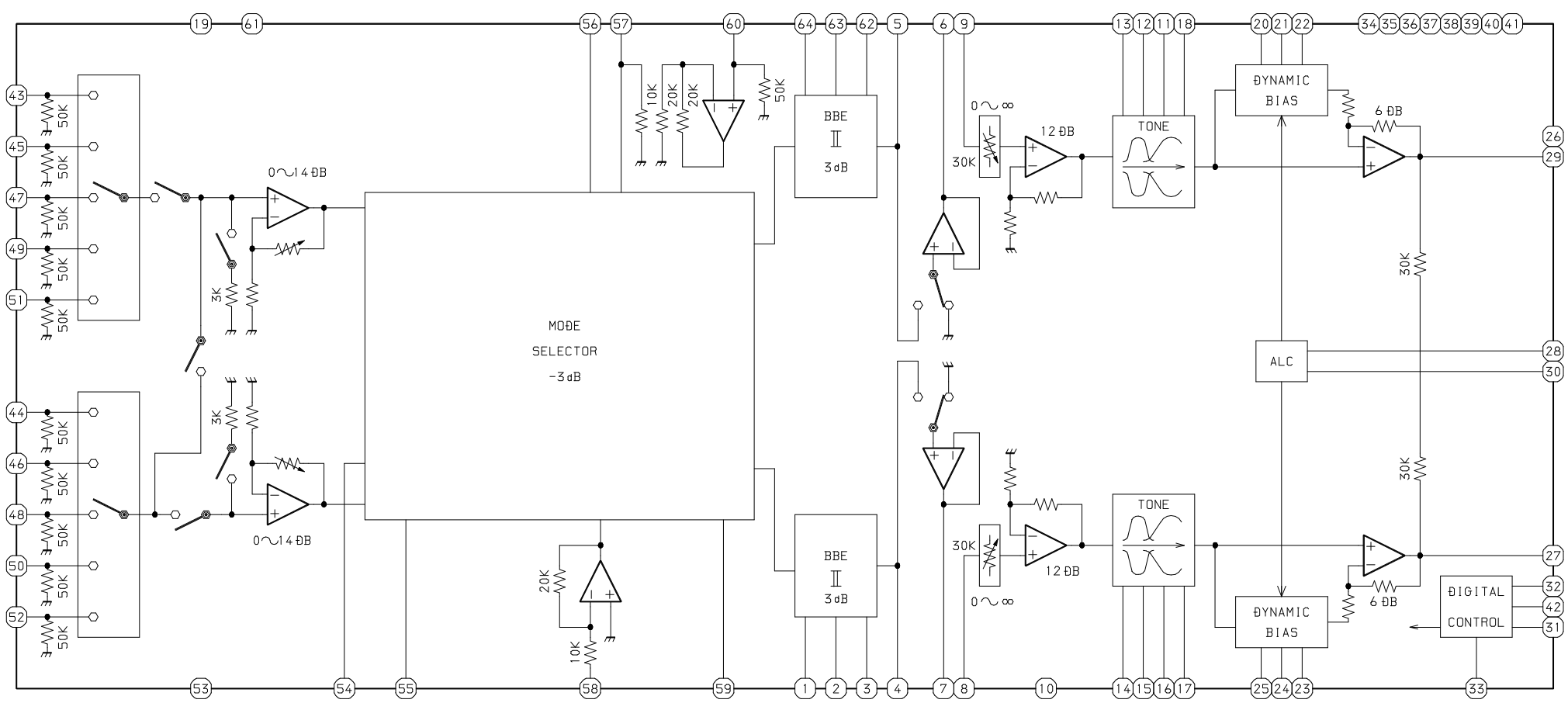
IC, LA1843



IC, BA7762AFS



IC, BD3876KS2



IC DESCRIPTION

IC, μ PD780226GF-017-3BA

Pin No.	Pin Name	I/O	Description
1	O-MOTOR	O	DECK MOTOR ON/OFF output.
2	O-SOL1	O	DECK1 solenoid output.
3	O-SOL2	O	DECK2 solenoid output.
4	P-LOGIC_LED	O	PRO LOGIC ON/OFF output.
5	O-REV_LED	O	PRESET (REV) LED ON/OFF output.
6	O-SET_LED	O	SET LED ON/OFF output.
7	O-CLEAR_LED	O	CLEAR LED ON/OFF output.
8	O-FWD_LED	O	PRESET (FWD) LED ON/OFF output.
9	O-DOWN_LED	O	DOWN LED ON/OFF output.
10	O-UP_LED	O	UP LED ON/OFF output.
11	NC	–	Not connected.
12	O-MUTE	O	MUTE output.
13	NC	–	Not connected.
14	O-BIAS	O	BIAS ON output.
15	NC	–	Not connected.
16	I-HP-MUTE	I	Head phones connect detect input.
17	IC	–	Internal connection (connected to GND).
18	VSS0	–	GND.
19	VDD0	–	Power supply.
20	O-POWER	O	System power supply $\overline{\text{ON}}$ /OFF output.
21	O-OPEN	O	CD tray open data output.
22	O-CLOSE	O	CD tray close data output.
23	O-DISH_F	O	CD turntable forward rotation output.
24	O-DISH_R	O	CD turntable reverse rotation output.
25	I/O-BUSY	I/O	CD I/O BUSY line.
26	O-STB	O	Strobe output for MAIN.
27	I-REA	I	Deck 2 side-A recordable switch data input. "L" = REC.
28	I-RDS_CLK	I	Tuner RDS clock input. (Not used)
29	I-SUBQ	I	CD SUBQ data input.
30	RESET	–	System reset.
31	O-DATA	O	Data output for MAIN.
32	I-WRQ/STEREO	I	CD WRQ input / Tuner stereo input.
33	I-DRF/ $\overline{\text{IFC}}$	I	CD DRF input / Tune IF count serial data input.
34	I-RMC	I	System remote control input.
35	I-DISHSENS	I	CD turntable photo sensor input.
36	O-CLK_SFT	O	Micon clock shift output.
37	VDD1	–	Power supply.
38	X2	–	4.19MHz oscillator circuit.
39	X1	–	4.19MHz oscillator circuit.
40	VSS1	–	GND.
41	AVDD	–	Power supply.
42	I-HOLD	I	Power failure detected input.

Pin No.	Pin Name	I/O	Description
43	I-CDSW	I	CD mecha switch input.
44	I-SPEANA_L	I	A/D L-input for spectrum analyser level display.
45	I-SPEANA_R	I	A/D R-input for spectrum analyser level display.
46 ~ 48	I-KEY1 ~ I-KEY3	I	Key1 ~ Key3 input.
49	I-TU_SIG	I	Tuner signal input.
50	AVSS	–	GND.
51	O-PLL_CLK	O	PLL clock enable output.
52	O-PLL_CE	O	Chip enable output for tuner PLL.
53	O-CD_LED	O	CD flash window LED ON/OFF output.
54	O-KSCAN	O	Key scan output.
55	O-CD_CLK	O	CD clock output. (Not used)
56	O-CD_DATA	O	CD data output.
57	O-CD_CE	O	CD enable output. (Not used)
58	NC	–	Not connected.
59	I-JOG_B	I	Dial jog rotary encoder input B.
60	I-JOG_A	I	Dial jog rotary encoder input A.
61	I-VOL_B	I	Volume rotary encoder input B.
62	I-VOL_A	I	Volume rotary encoder input A.
63	I-REB	I	Deck 2 side-B recordable switch data input. "L" = REC.
64	I-TM_BASE	I	Base input for clock.
65	I-CAM2	I	DECK2 CAM switch data input.
66	I-CAM1	I	DECK1 CAM switch data input.
67	P1/I-AUTO2	O/I	FL segment P1 output / DECK2 AUTO STOP switch data input.
68	P2/I-AUTO1	O/I	FL segment P2 output / DECK1 AUTO STOP switch data input.
69	P3/I-CST2	O/I	FL segment P3 output / DECK2 cassette detect switch data input.
70	P4/I-CST1	O/I	FL segment P4 output / DECK1 cassette detect switch data input.
71 ~ 73	P5 ~ P7	O	FL segment P5 ~ P7 output.
74	P8/SW	O/I	FL segment P8 output / SW mode data input.
75, 76	P9, P10	O	FL segment P9, P10 output.
77	P11/R+1	O/I	FL segment P11 output / REV data input.
78	P12	O	FL segment P12 output.
79	VDD2	–	Power supply.
80	VLOAD	–	Power supply for FL display.
81	P13/C-JACK	O/I	FL segment P13 output / C-JACK data input.
82	P14/ECO-OFF	O/I	FL segment P14 output / ECO-OFF data input.
83	P15/P-LOGIC	O/I	FL segment P15 output / P-LOGIC data input.
84 ~ 90	P16 ~ P22	O	FL segment P16 ~ P22 output.
91 ~100	G1 ~ G10	O	FL grid G1 ~ G10 output.

ADJUSTMENT <TUNER / DECK / FRONT>

< TUNER SECTION >

1. Clock frequency Check
Settings : • Test point : TP2 (CLK)
Method : Set to MW 1602kHz and check that the test point is 2052kHz \pm 45Hz.
2. MW VT Adjustment
Settings : • Test point : TP1 (VT)
• Adjustment location : L953
Method : Set to MW 1602kHz and adjust L953 so that the test point becomes 8.0V \pm 0.05V. Then set to MW 531kHz and check that the test point is more than 0.3V.
3. MW Tracking Adjustment
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location :
L952 603kHz
TC941 1404kHz
Method : Set up TC941 to center before adjustment.
The level at 603kHz is adjusted to MAX. by L952.
Then the level at 1404kHz is adjusted to MAX. by TC941.
4. SW VT Adjustment
Settings : • Test point : TP1 (VT)
• Adjustment location : L942
Method : Set to SW 17.9MHz and adjust L942 so that the test point becomes 8.0V \pm 0.05V. Then set to SW 5.9MHz and check that the test point is more than 0.3V.
5. SW Tracking Adjustment
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location :
L941 5.9MHz
TC943 17.9MHz
Method : Set up TC943 to center before adjustment.
The level at 5.9MHz is adjusted to MAX. by L941.
Then the level at 17.9MHz is adjusted to MAX. by TC941.
6. AM IF Adjustment
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location :
L802 450kHz
7. FM VT Check
Settings : • Test point : TP1 (VT)
Method : Set to FM 87.5MHz and check that the test point is more than 0.5V. Then set to FM 108.0MHz and check that the test point is less than 8.0V.
8. FM Tracking Check
Settings : • Test point : TP8 (Lch), TP9 (Rch)
Method : Set to FM 98.0MHz and check that the test point is less than 9dB μ V.
9. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4 (DC)
• Adjustment location : L801
• Input level : 60dB μ V
Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 becomes 0V \pm 0.3V.
Then check that the distortion is less than 1.3%.

10. Output Level Check
<MW>
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Input level : 74dB μ V
Method : Set to AM(MW) 999kHz and check that the test point is 74mV \pm 3dB.

<FM>
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Input level : 60dB μ V
Method : Set to FM 98.0MHz and check that the test point is 320mV \pm 3dB.
11. FM Separation Check
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Input level : 60dB μ V
Method : Set to FM 98.0MHz and check that the test point is more than 25dB.

< DECK SECTION >

12. Tape Speed Adjustment (DECK 2)
Settings : • Test tape : TTA-100
• Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location : SFR1
Method : Play back the 3kHz signal of the test tape and adjust SFR1 so that the test point becomes 3000Hz \pm 5Hz (FWD) and FWD SPEED \pm 45Hz (REV).
13. Head Azimuth Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA-330
• Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location : Head azimuth adjustment screw
Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum.
Next, perform on REV PLAY mode.
14. PB Frequency Response Check (DECK 1, DECK 2)
Settings : • Test tape : TTA-330
• Test point : TP8 (Lch), TP9 (Rch)
Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is 0dB \pm 5.0dB.
15. PB Sensitivity Check (DECK 1, DECK 2)
Settings : • Test tape : TTA-200
• Test point : TP8 (Lch), TP9 (Rch)
Method : Play back the test tape and check that the output level of the test point is 110mV \pm 3.0dB.
16. REC/PB Frequency Response Adjustment (DECK 2)
Settings : • Test tape : TTA-602
• Test point : TP8 (Lch), TP9 (Rch)
• Input signal : 1kHz / 8kHz
(-20VU / -26dBV)
• Adjustment location : SFR451 (Lch)
SFR452 (Rch)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 5.5mV \sim 9.5mV. Record and play back the 1kHz and 8kHz signals and adjust SFRs so that the output of the 8kHz signals becomes 0dB \pm 0.5dB with respect to that of the 1kHz signal.

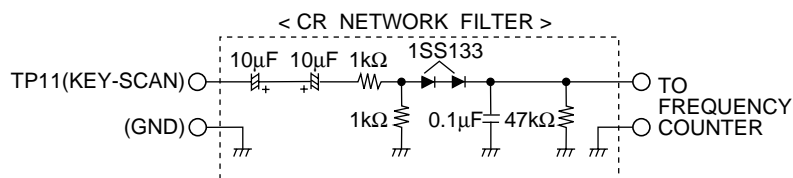
17. REC/PB Sensitivity Check (DECK 2)

- Settings :
- Test tape : TTA-602
 - Test point : TP8 (Lch), TP9 (Rch)
 - Input signal : 1kHz (0VU / -6dBV)
- Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 55mV ~ 95mV. Record and play back the 1kHz signals and check that the output is -2dB \pm 3.5dB.

< FRONT SECTION >

18. μ -CON OSC Adjustment

- Settings :
- Test point : TP11 (KEY-SCAN), (GND)
 - Adjustment location : L951
- Method : Connect a frequency counter across TP11 and GND via a CR network filter as shown below.
Then adjust L951 so that the test point becomes 184.94Hz \pm 0.18Hz.



CD TEST MODE

1. How to Activate CD Test Mode

Insert the AC plug while pressing the function CD button.
All FL display tubes will light up, and the test mode will be activated.

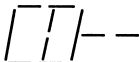
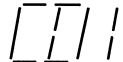

2. How to Cancel CD Test Mode

Either one of the following operations will cancel the CD test mode.

- Press the function button. (except CD function button)
- Press the power switch button.
- Disconnect the AC plug

3. CD Test Mode Functions

When test mode is activated, the following mode functions from No.1 to No.5 can be used by pressing the operation keys.

Mode/No.	Operation	FL display	Operation	Contents
Start mode No.1	Activation	All lamps light	<ul style="list-style-type: none"> • Test mode is activated. • CD block power is ON. 	<ul style="list-style-type: none"> • FL display check (All displays light.)
Search mode No.2	■ key		<ul style="list-style-type: none"> • Laser diode turns always ON. • Continual focus search (The pickup lens repeats the full-swing up-down motion.) * Avoid continual searches that last for more than 10 minutes. <p style="text-align: right;">* NOTE 1</p>	<ul style="list-style-type: none"> • APC circuit check • Laser current measurement (Laser current control. Across a resistor connected between emitter and GND.) <p>FOCUS SERVO</p> <ul style="list-style-type: none"> • Check focus search waveform • Check focus error waveform (FOK/FZC are not monitored in the search mode)
Play mode No.3	◀▶ key		<ul style="list-style-type: none"> • Normal playback • Focus search is continued if TOC cannot be read. <p style="text-align: right;">* NOTE 1</p>	<p>FOCUS SERVO/TRACKING SERVO</p> <p>CLV SERVO/SLED SERVO</p> <p>Check DRF</p>
Traverse mode No.4	key		<ul style="list-style-type: none"> • During normal disc playback Press once; tracking servo OFF Press twice; tracking servo ON <p style="text-align: right;">* NOTE 2</p>	<p>TRACKING SERVO ON/OFF</p> <p>Tracking balance (traverse) check</p>
Sled mode No.5	⏮ key ⏭ key	All lamps light	<ul style="list-style-type: none"> • Pickup moves to the outermost track • Pickup moves to the innermost track <p style="text-align: right;">* NOTE 3</p> <p>(During playback, machine operates normally.)</p>	<p>SLED SERVO</p> <p>Check SLED mechanism operation</p>

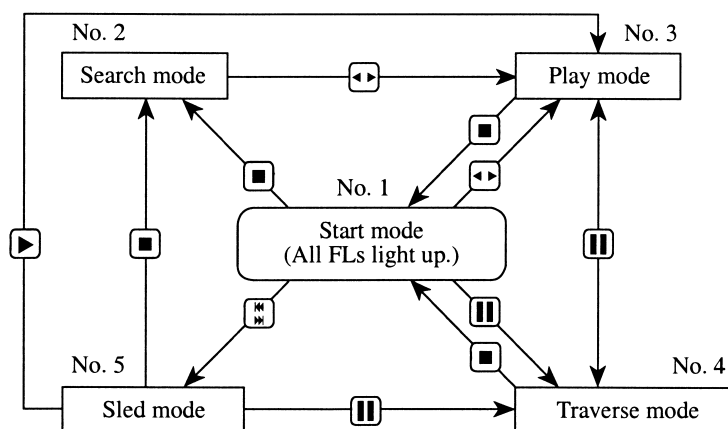
* NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.

* NOTE 2: Do not press the ⏮ or ⏭ keys when the machine is in the || status is active. If they are pressed, playback will not be possible after the || status has been canceled. If the ⏮ or ⏭ keys are pressed in the || status, press the ■ key and return to the start mode (No.1).

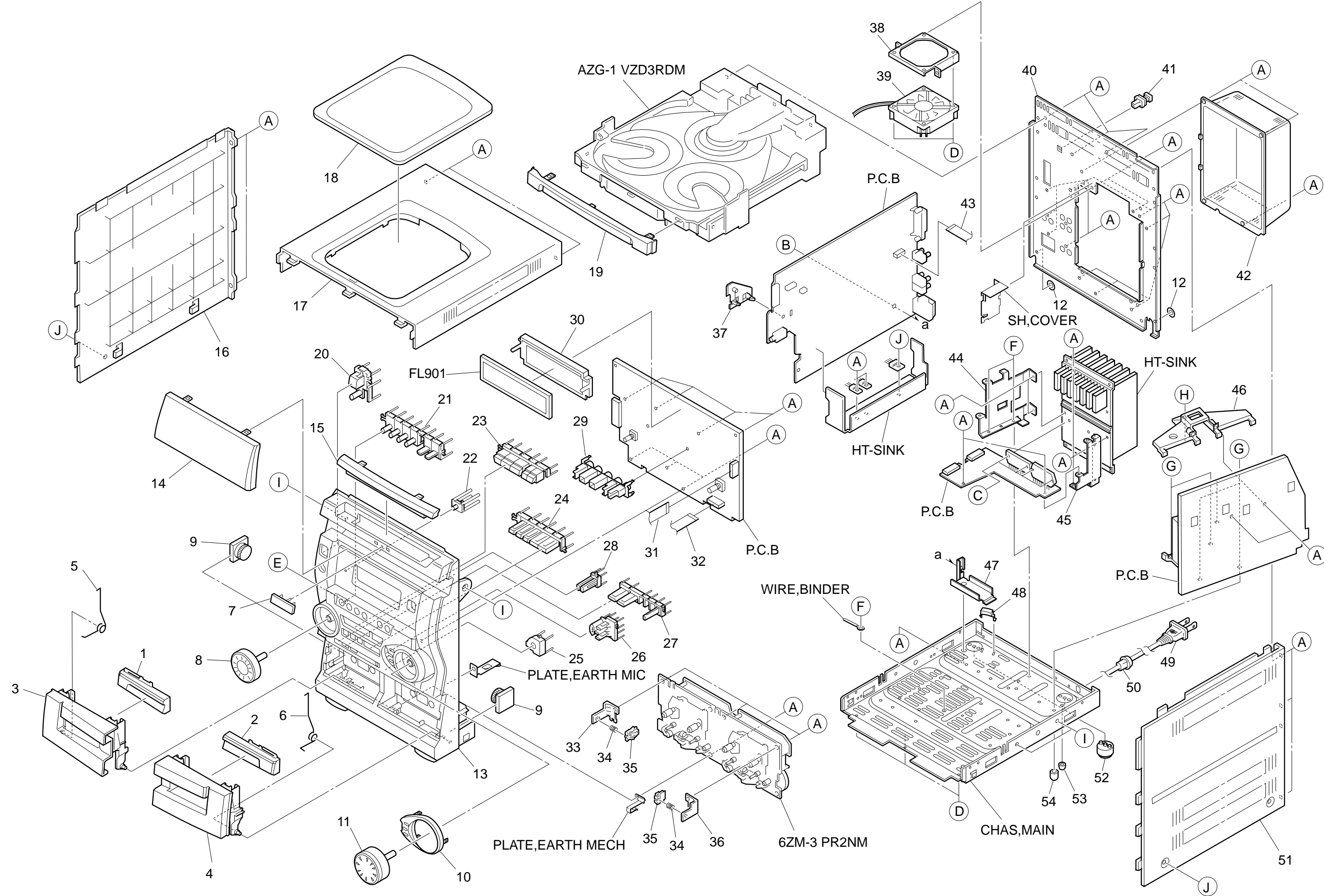
* NOTE 3: When pressing the ⏮ or ⏭ keys, take care to avoid damage to the gears. Because the sled motor is activated when the ⏮ or ⏭ keys are pressed, even when the pick-up is at the outermost or innermost track.

4. Operation Outline

The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.



If the DISC DIRECT PLAY button is pressed, the machine performs the same operation as the PLAY button is pressed as shown. If the tray is opened by pressing OPEN/CLOSE button during Play mode or Traverse mode, the machine returns to the Start mode.



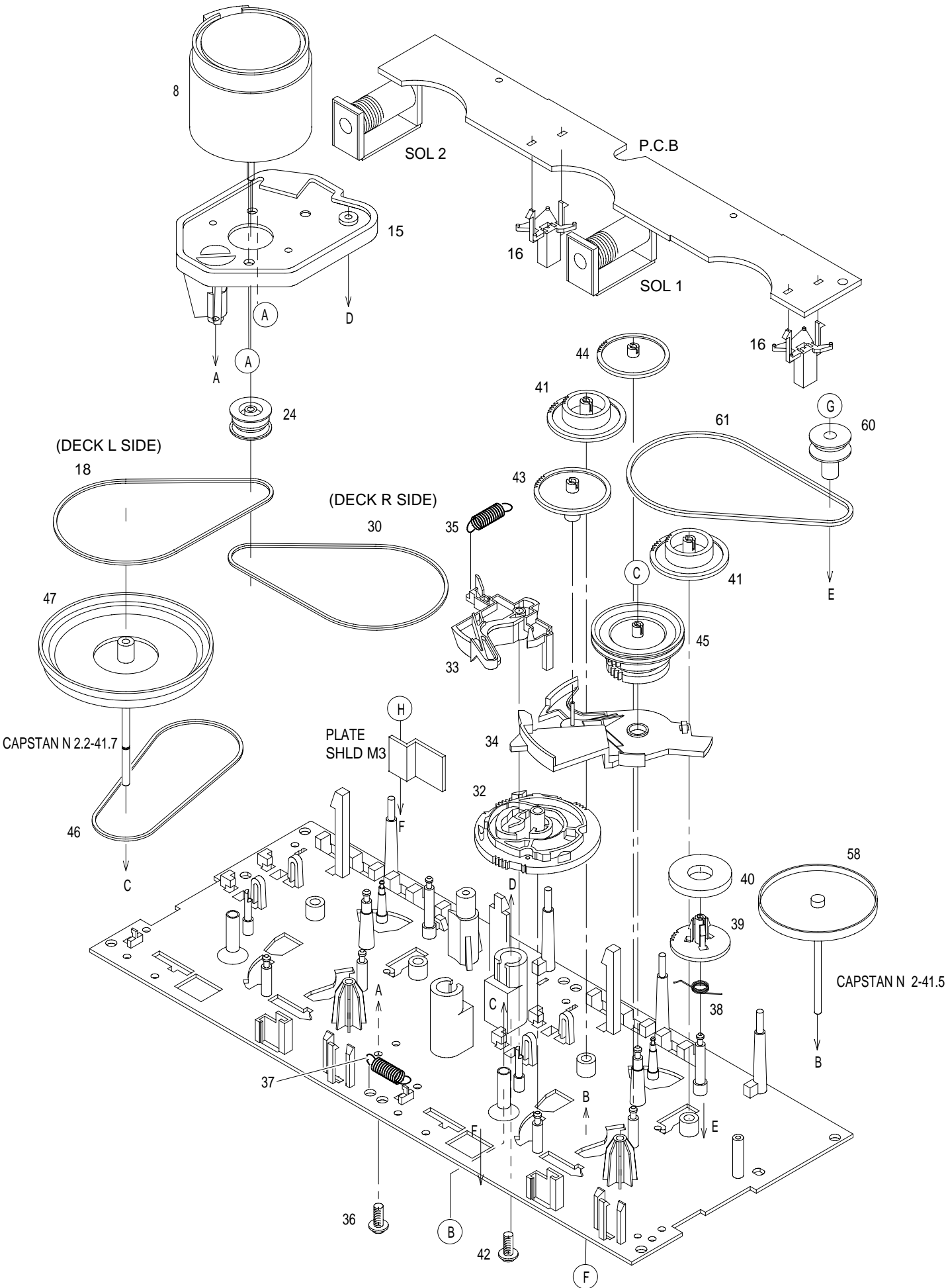
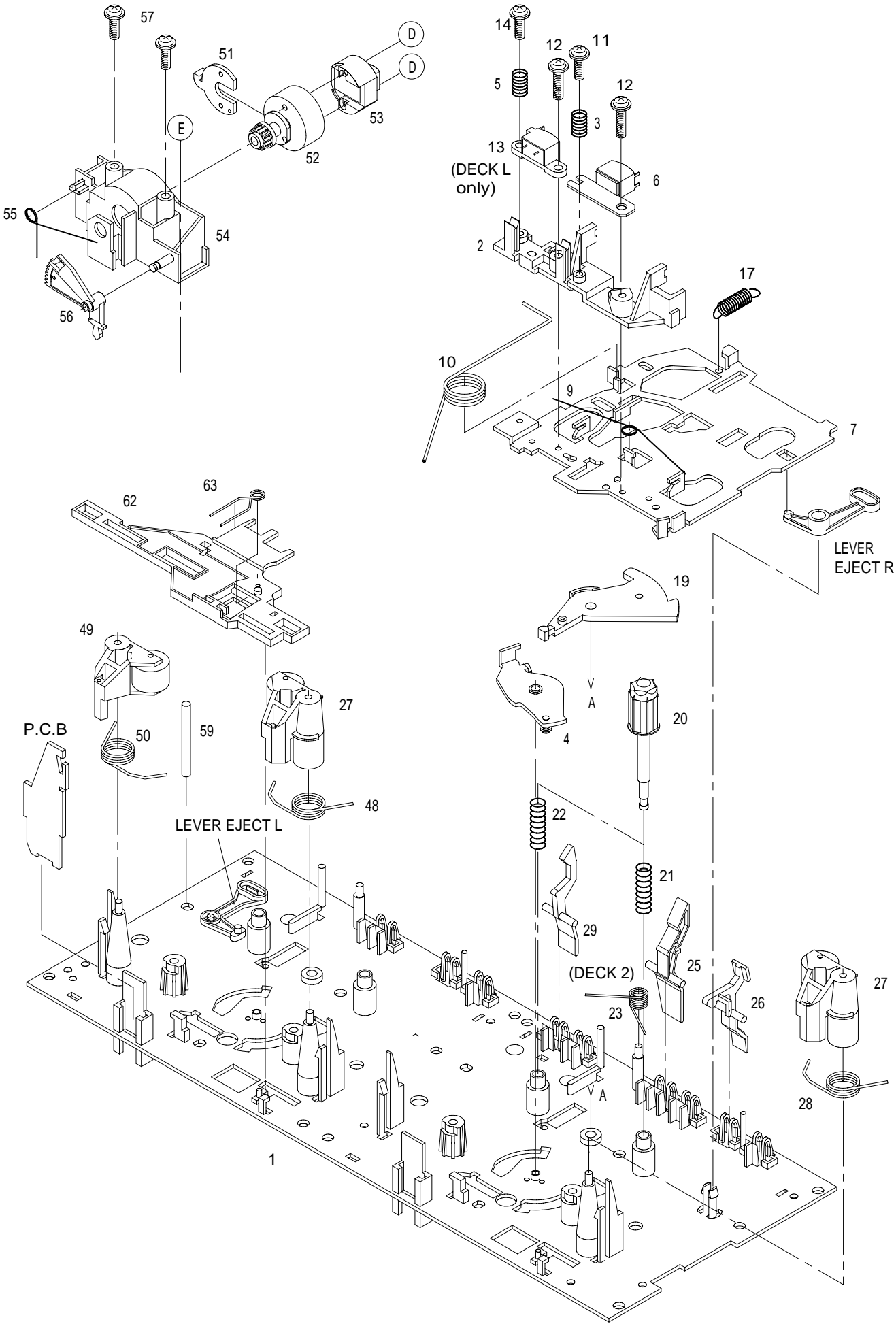
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NF9-006-010		WINDOW,CASS 1	36	87-NF4-217-110		HLDR,LOCK 2
2	8A-NF9-007-010		WINDOW,CASS 2	37	8A-NF8-206-010		HLDR,PWB M
3	8A-NF9-047-010		BOX,CASS 1 H	38	8A-NF6-219-010		HLDR, FAN
4	8A-NF9-004-010		BOX,CASS 2	39	87-A91-751-010		FAN, DSB0812M-S382-4
5	8A-NF8-207-010		SPR-T,EJECT 1	40	8A-NHW-003-010		PANEL,REAR HRJSM
6	8A-NF8-208-010		SPR-T,EJECT 2	41	84-ZG1-245-210		CAP,OPTICAL
7	87-CE3-023-010		BADGE,AIWA 30N SILV	42	8A-NHU-053-010		COVER, REAR H
8	8A-NF9-016-010		KNOB,RTRY VOL	43	88-906-251-110		FF-CABLE,6P 1.25
9	8A-NF8-209-010		OIL-DMPR,120	44	8A-NF7-207-010		HLDR,HT L
10	8A-NF9-017-010		PANEL,JOG	45	8A-NF7-208-010		HLDR,HT R
11	8A-NF9-018-010		KNOB,RTRY JOG	46	8A-NF6-217-010		HLDR,PWB PT
12	8A-NF7-251-010		W, 3.2-8-0.45	47	8A-NF7-209-010		HLDR,PWB-M BTM
13	8A-NHW-001-010		CABI,FR H	48	87-NF4-221-010		HLDR,CABLE
14	8A-NHW-002-010		WINDOW,DISP H	49	87-A80-157-010		AC CORD ASSY,E BLK CC
15	8A-NF9-039-010		WINDOW,CD	50	87-085-185-010		BUSHING, AC CORD (E)CM-22B
16	8A-NF8-007-010		PANEL,LEFT V-2	51	8A-NF7-112-010		PANEL,RIGHT V-2
17	8A-NF8-005-010		PANEL,TOP	52	87-085-221-010		FOOT,H15.3
18	8A-NF8-006-010		WINDOW,TOP	53	8Z-NB8-254-010		COVER, PL M3
19	8A-NHW-007-010		PANEL,TRAY VCD	54	8Z-NB8-240-010		COVER, PL
20	8A-NF9-008-010		KEY,POWER	A	87-067-703-010		BVT2+3-10 W/O SLOT
21	8A-NFW-003-010		KEY,PRO	B	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
22	8A-NF9-022-010		REFLECTOR,ECO	C	87-067-581-010		BVT2+3-15 W/O SLOT
23	8A-NF9-023-010		KEY,ASSY OPE REV	D	87-067-689-010		BVTT+3-8
24	8A-NF9-020-110		KEY,CD	E	87-723-096-410		QT2+3-10W/O SLOT BLK
25	8A-NF9-021-010		PLATE,MIC	G	87-078-191-010		S-SCREW,IT+4-10
26	8A-NF9-026-110		KEY,ENTER	H	87-067-641-010		UTT2+3-8 W/O SLOT BLK
27	8A-NH9-005-010		KEY,PBC	I	87-721-097-410		QT2+3-12 W/O SLOT
28	8A-NF9-013-010		KEY,ECHO	J	87-067-001-010		S-SCREW, BVWWST2+3-12 W/O
29	8A-NF0-202-010		GUIDE,OPE REV				
30	82-NF7-210-110		GUIDE,FL (*)				
31	88-913-301-110		FF-CABLE,13P-1.25				
32	88-911-101-110		FF-CABLE,11P 1.25				
33	87-NF4-216-010		HLDR,LOCK 1				
34	86-NF9-224-010		SPR-C,LOCK				
35	82-NF5-229-010		PLATE,LOCK				

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink

TAPE MECHANISM EXPLODED VIEW 1 / 1



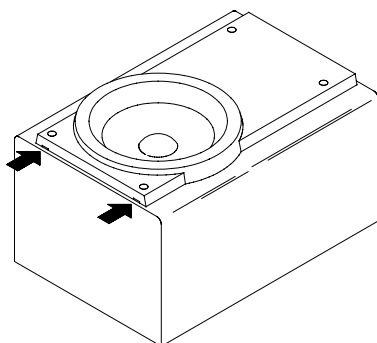
TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-ZM3-215-010		CHAS ASSY,RS	41	82-ZM1-216-310		GEAR,REEL
2	86-ZM3-202-010		BASE,HEAD S	42	86-ZM3-213-010		S-SCREW,HLD R, MOT 3
3	86-ZM3-205-010		SPR-C,RPH S	43	82-ZM1-225-210		GEAR,FR
4	82-ZM1-333-210		PLATE, LINK 2	44	82-ZM1-226-010		GEAR,REW
5	86-ZM3-206-010		SPR-C,EH S	45	82-ZM3-333-310		SLIP DISK ASSY 2
6	87-A90-403-010		HEAD,RPH MS15R	46	82-ZM1-338-010		BELT FR4
7	86-ZM3-201-010		CHAS,HEAD S(DECK L)	47	82-ZM1-349-010		FLY-WHL RW (DECK L)
7	82-ZM3-206-910		BELT,R	47	82-ZM3-338-010		FLY-WHL R3W (DECK R)
8	87-045-347-010		MOT,SHU2L 70(M1)	48	82-ZM1-259-210		SPR-T,PINCH R
9	82-ZM1-269-210		SPR-T,BRG	49	82-ZM1-341-110		LVR ASSY,PINCH L2
10	82-ZM1-219-110		SPR-T, LINK	50	82-ZM1-258-210		SPR-T,PINCH L
11	86-ZM3-209-010		S-SCREW,ASIMUTHS	51	82-ZM1-314-110		PLATE,HEAD
12	86-ZM3-207-010		S-SCREW,RPH	52	82-ZM1-208-310		HLD R,HEAD
13	87-A90-404-010		HEAD,EH LE15B	53	87-A90-366-010		HEAD,PH YK50P-BF414
14	86-ZM3-208-010		S-SCREW,EH	54	82-ZM1-207-810		GUIDE TAPE
15	86-ZM3-203-010		HLD R,MOTS	55	82-ZM1-213-010		SPR-T,HEAD
16	82-ZM1-245-210		HLD R,IC	56	82-ZM1-210-110		GEAR,HT
17	82-ZM1-218-010		SPR-E,HB	57	86-ZM4-206-010		S-SCREW AZIMUTH L
18	86-ZM3-214-010		BELT,SUB RR	58	82-ZM1-348-010		FLY-WHL,LW
19	82-ZM1-222-210		LVR,PLAY	59	82-ZM3-339-010		SHAFT,COUPLER N3
20	82-ZM1-217-410		REEL TABLE	60	82-ZM3-335-210		PULLEY,COUPLER M3
21	82-ZM1-244-510		SPR-C,BT	61	86-ZM1-206-010		BELT,MAIN L
22	82-ZM1-285-410		SPR-C,BT L	62	82-ZM1-266-110		LVR,DIR
23	82-ZM1-257-010		SPR-T,CAS	63	82-ZM1-214-010		SPR-T,DIR
24	82-ZM3-221-010		PULLEY,MOT 2M	A	87-251-071-410		U+2.6-4
25	82-ZM1-242-010		LVR,CAS	B	80-ZM6-243-010		SH,1.75-3.6-0.5 SLT
26	82-ZM1-243-010		LVR,STOP	C	82-ZM3-334-010		PW,2.16-6-0.4
27	82-ZM1-344-110		LVR ASSY,PINCH	D	80-ZM6-207-010		V+1.6-7
28	86-ZM3-204-010		SPR-T,PINCHDS	E	85-ZM3-202-010		S-SCREW TG
29	82-ZM1-240-110		LVR,REC (DECK 2)	F	82-ZM1-288-010		SH,1.63-3.2-0.5 SLT
30	86-ZM3-210-010		BELT,RS	G	87-B10-043-010		W-P,0.99-4-0.25 SLT
32	82-ZM3-305-110		GEAR,CAM M2	H	87-571-032-410		VIT+2-3
33	82-ZM1-227-310		LVR,TRIG				
34	82-ZM3-306-110		LVR,FR M2				
35	82-ZM1-265-110		SPR-E,TRIG				
36	87-761-073-410		VFT2+2.6-6 W/O SLOT				
37	82-ZM1-255-310		SPR-E,LVR DIR				
38	82-ZM1-322-010		SPR-T,FR60				
39	82-ZM1-220-210		GEAR,IDLER				
40	82-ZM3-616-010		RING MAGNET 4				

SPEAKER DISASSEMBLY INSTRUCTIONS

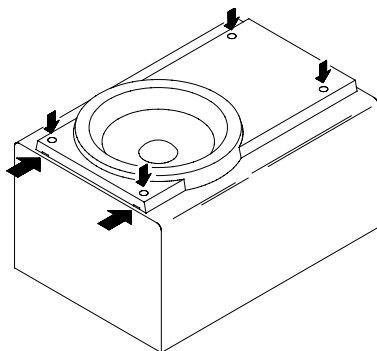
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



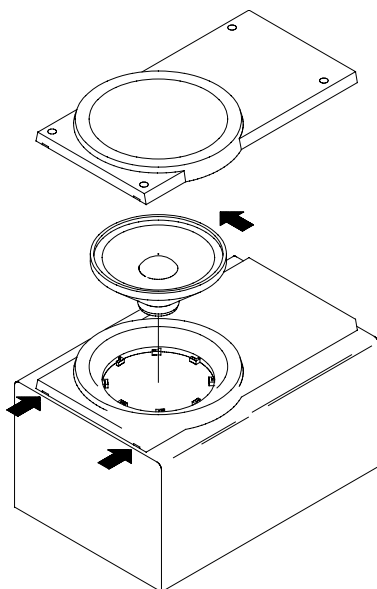
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

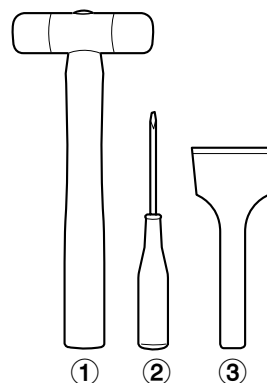


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

- ① Plastic head hammer
- ② (⊖) flat head screwdriver
- ③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.
2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.
3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

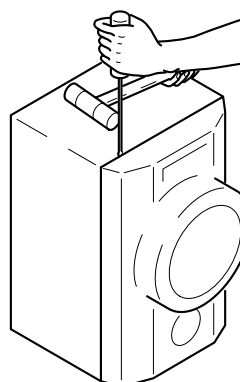


Fig-1

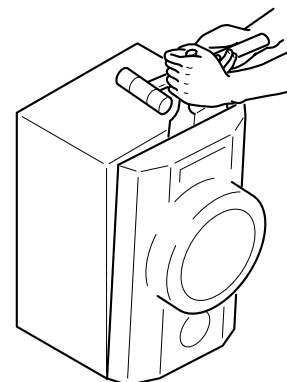


Fig-2

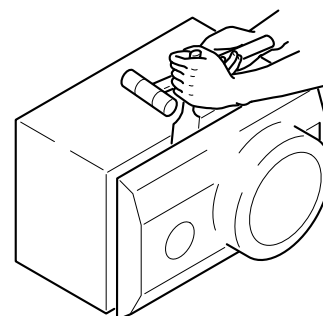


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST

SX-NDP24 (YJBL, YJ7BL, YJ3BL)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NSW-001-010		GRILLE,FRAME ASSY
2	83-096-614-010		SPEAKER CODE
3	8Z-NSW-602-010		SPKR,W 140
4	8Z-NSW-604-010		SPKR,T 60

SX-R277 (YJSTC)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-YS1-601-010		SPKR,100
2	8Z-YS1-002-010		GRILLE,FRAME ASSY
3	81-VSA-009-010		CORD,BUSH
4	87-010-384-010		CAP,E 100-25 M SME
5	87-YS6-002-010		SPKR,CORD Y

SX-C607 (YJSTC)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS7-012-010		PANEL,FR S
2	87-YS7-602-010		SPKR,100
3	87-YS3-003-010		GRILLE,FRAME ASSY
4	81-VSA-009-010		CORD,BUSH
5	83-NSM-010-010		SPKR,CORD

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NHW-901-010		IB,H(ECA)M
2	87-006-226-010		AM-LOOP ANT CO
3	87-043-115-010		ANT,FEEDER FM
4	87-050-103-010		CORD,PIN 1PY1.5M
5	87-A90-119-010		ANT,WIRE SW(5M)
△ 6	87-A91-017-010		PLUG,CONVERSION JT-0476
7	8Z-NH8-702-010		RC UNIT,RC-ZAS07

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